



Paragon Analytics

Total Extractable Hydrocarbons (Diesel) Case Narrative

Kent & Sullivan Inc.

Ross Adams

Order Number - 0405096

1. This report consists of 4 soil samples. The samples were received intact by Paragon on 5/11/04. The temperature of the samples upon receipt was between 9° and 15° Celsius.
2. The soil samples were extracted by adding methylene chloride to the soil. This mixture is shaken for 4h and the methylene chloride is removed, dried over sodium sulfate and then concentrated prior to analysis. This extraction follows the California LUFT Field Manual (October 1989 revision).
3. The extracts were then analyzed using GC with a DB-5.625 capillary column and a flame ionization detector (FID) according to Paragon Analytics Standard Operating Procedure 406 Revision 10 generally based on SW-846 Method 8000B and Method 8015B and specifically on the California LUFT Field Manual (October 1989 revision). The procedures are based on this general method because SW-846 does not have a specific method for total extractable petroleum hydrocarbons (TEPH) or diesel range organics. The only true modification from this method is that TEPH is a multicomponent mixture and is quantitated by integrating across the entire range, rather than summing areas of individual peaks. All positive results were quantitated using the responses from the initial calibration curve using the external standard technique. Also, a confirmation column is not used, because the analyte is a multicomponent mixture and the specific carbon range of the peaks detected is specified on the individual sample reporting forms.
4. All initial and continuing calibration criteria were met.
5. The method blank associated with this project was below the MDL for all analytes.

6. All laboratory control spike and laboratory control spike duplicate recoveries and RPDs were within the acceptance criteria.
7. Matrix spikes and matrix spike duplicates were not reported due to dilution of the native sample.
8. All samples were extracted and analyzed within the established holding time.
9. All surrogate recoveries were within the acceptance criteria.
10. Samples 0405096-21, -22, -23, and -24 were analyzed at a dilution in order to bring the target analyte within the calibration range of the instrument. The reporting limits have been adjusted accordingly.
11. The table below shows the concentrations of extractable hydrocarbons within the ranges requested by this client. The values calculated were taken from chromatograms included in the miscellaneous section quantified with specified carbon range. The results in the table vary from those reported as different carbon ranges were utilized during the integration of the areas used to calculate the results.

Sample ID	Analytical Component	Dilution Factor	Result (mg/Kg)
0405096-21	C ₁₀ -C ₂₅	50	12000
	C ₂₅ -C ₃₆		4700
0405096-22	C ₁₀ -C ₂₅	200	12000
	C ₂₅ -C ₃₆		43000
0405096-23	C ₁₀ -C ₂₅	50	1200
	C ₂₅ -C ₃₆		5900
0405096-24	C ₁₀ -C ₂₅	200	12000
	C ₂₅ -C ₃₆		46000

12. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in Paragon Analytics Standard Operating Procedure 939 Revision 1. Whenever manual integrations are performed, before and after chromatograms of the peak that was manually integrated are included in the report along with the reason why the re-integration was necessary.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Craig Hults 6/10/04
Craig Hults Date
Fuels Analyst

mg 6/10/04
Reporter's Initials Date

Paragon Analytics
Data Qualifier Flags
Fuels

- G:** This flag indicates that a pattern resembling gasoline was detected in this sample.
- D:** This flag indicates that a pattern resembling diesel was detected in this sample.
- M:** This flag indicates that a pattern resembling motor oil was detected in this sample.
- C:** This flag indicates that a pattern resembling crude oil was detected in this sample.
- 5:** This flag indicates that a pattern resembling JP-5 was detected in this sample.
- H:** This flag indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L:** This flag indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z:** This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
gasoline
JP-4
JP-8
diesel
mineral spirits
motor oil
Stoddard solvent
bunker C

Multiple flags may be used to indicate the presence of more than one product or component.

Paragon Analytics
Data Qualifier Flags
Chromatography and Mass Spectrometry

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows: (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- ***: This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +**: This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

Paragon Analytics

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 0405096

Client Name: Kent & Sullivan Inc.

Client Project Name: Ross Adams

Client Project Number:

Client PO Number:

Client Sample	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MSED-01	0405096-1		SOIL	06-May-04	13:00
MSED-02	0405096-2		SOIL	06-May-04	13:40
MSED-03	0405096-3		SOIL	06-May-04	14:00
MSED-04	0405096-4		SOIL	06-May-04	9:10
MSED-05	0405096-5		SOIL	06-May-04	9:20
MSED-06	0405096-6		SOIL	07-May-04	8:30
MSED-07	0405096-7		SOIL	07-May-04	9:00
MSED-08	0405096-8		SOIL	07-May-04	9:15
MSED-09	0405096-9		SOIL	07-May-04	9:20
MSED-10	0405096-10		SOIL	07-May-04	10:10
SSED-01	0405096-11		SOIL	05-May-04	16:15
SSED-02	0405096-12		SOIL	05-May-04	17:05
SSED-03	0405096-13		SOIL	04-May-04	18:10
SSED-04	0405096-14		SOIL	04-May-04	17:00
SSED-05	0405096-15		SOIL	04-May-04	15:59
SSED-06	0405096-16		SOIL	04-May-04	15:03
SSED-07	0405096-17		SOIL	04-May-04	14:00
SSED-08	0405096-18		SOIL	05-May-04	12:40
SSED-09	0405096-19		SOIL	05-May-04	15:20
SSED-10	0405096-20		SOIL	04-May-04	19:05
GEN-01	0405096-21		SOIL	07-May-04	12:40
GEN-02	0405096-22		SOIL	07-May-04	12:35
GEN-03	0405096-23		SOIL	07-May-04	12:50
GEN-04	0405096-24		SOIL	07-May-04	13:06
SOIL-01	0405096-25		SOIL	06-May-04	16:00
SOIL-02	0405096-26		SOIL	06-May-04	15:40
SOIL-04	0405096-27		SOIL	06-May-04	15:04
SOIL-05	0405096-28		SOIL	06-May-04	15:10
SOIL-07	0405096-29		SOIL	07-May-04	13:50
SOIL-08	0405096-30		SOIL	07-May-04	16:15
SOIL-09	0405096-31		SOIL	07-May-04	14:10
SOIL-10	0405096-32		SOIL	07-May-04	16:40



Paragon Analytics, Inc.

225 Commerce Lane Fort Collins, CO 80524
800-43-1511 or (970) 490-1511 (970) 490-1522 Fax

Chain-of-Custody

Accession Number (LAB ID)

Date _____

Page 2 of 9

Project Name / No.:		Sampler(s):		Turnaround: Standard or Rush (Due _____)		Dispose or Return to Client	
Report To:							
Phone:							
Fax:							
Company:							
Address:							
circle method or specify under comments							
Sample ID	Date	Time *	Lab ID	Matrix	No. of Contaminers	VOCs	BTEX (only)
						SVOCs	SW5020B E604 E604 QMCO
						OC Pesticides	SW5020C E604 E604 QMCO
						OP Pesticides	SW5141A E614
						Herbicides	SW5151A E615
						TCLP Organics	SW1311 E608 E270C B081A B151A
						TCLP Metals	SW5010B T470 T471 E200 ILMQ
						Dissolved Metals	SW6010B T470 E200 ILMQ
						Reactive CN / S	SW646 CNappt F
						Hexavalent Chromium	SW1795A Alkaline Digests? Y / N
						Inorganic Anions **	SW5056 E300 O
						Gross Alpha / Beta	SW9310 E900 O
						Actinides by PAI SOP (circle) Pu / U / Am / Th / Cm	
						Uranium	SW9315 E903 O
						Radium	SW9315 E903 0 Radium 228 SW9320 E904 0
						Strontium	SW9315 E903 0 Strontium 90 D6811-95
						Gamma Isotopes **	E9011

(1) Relinquished By:	
Signature <u>Amber Wolf</u>	
Printed Name <u>Amber Wolf</u>	
Date <u>5/10/10</u> Time <u>10:45</u>	
Company <u>Kent + St. John</u>	
(2) Received By:	
Signature <u>Amber Wolf</u>	
Printed Name <u>Amber Wolf</u>	
Date <u>5/10/10</u> Time <u>10:45</u>	
Company <u>Paragon Analytics</u>	

Form 20214.xls (1/3/01)

Distribution: white / yellow (Paragon); pink retained by originator.

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.



Paragon Analytics, Inc.

225 Commerce Drive Fort Collins CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Chain-of-Custody

Sammler(s):

(continued from previous page) Tumors around secondary or primary sites

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Report To:

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Florie.

Fax: Company: Address:

* Time Zone (cancel one): EST CST MST PST

order comments

ear comments

Distribution: White / Yellow (Barroon); pink specimen by



Paragon Analytics, Inc.

225 Culverhouse Drive, Fort Collins, CO 80524
800 433-1511 or (970) 490-1511 (370) 490-1522 Fax

Chain-of-Custody

Accession Number (LAB ID) 1115050
Date _____ Page 5 of 9

Project Name / No.:	Sampler(s):	(Circle one) Turnaround: Standard or Rush (Due _____)	Dispose or Return to Client		
Report To: <i>[Signature]</i>					
Phone: <i>[Signature]</i>					
Fax: <i>[Signature]</i>					
Company: <i>[Signature]</i>					
Address: <i>[Signature]</i>					
circle method or specify under comments					
Sample ID	Date	Time *	Lab ID	Matrix	No. of Contaminants
1115050	5-6	16:00	X5	Soln	3
1115051	5-6	15:40	X6	Soln	3
1115052	5-6	17:15	X7	Soln	3
1115053	5-6	17:20	X8	Soln	3
1115054	5-6	17:25	X9	Soln	3
1115055	5-6	17:30	X10	Soln	3
1115056	5-6	17:35	X11	Soln	3
1115057	5-6	17:40	X12	Soln	3
1115058	5-6	17:45	X13	Soln	3
1115059	5-6	17:50	X14	Soln	3
1115060	5-6	17:55	X15	Soln	3
1115061	5-6	18:00	X16	Soln	3
1115062	5-6	18:05	X17	Soln	3
1115063	5-6	18:10	X18	Soln	3
1115064	5-6	18:15	X19	Soln	3
1115065	5-6	18:20	X20	Soln	3
1115066	5-6	18:25	X21	Soln	3
1115067	5-6	18:30	X22	Soln	3
1115068	5-6	18:35	X23	Soln	3
1115069	5-6	18:40	X24	Soln	3
1115070	5-6	18:45	X25	Soln	3
1115071	5-6	18:50	X26	Soln	3
1115072	5-6	18:55	X27	Soln	3
1115073	5-6	19:00	X28	Soln	3
1115074	5-6	19:05	X29	Soln	3
1115075	5-6	19:10	X30	Soln	3
1115076	5-6	19:15	X31	Soln	3
1115077	5-6	19:20	X32	Soln	3
1115078	5-6	19:25	X33	Soln	3
1115079	5-6	19:30	X34	Soln	3
1115080	5-6	19:35	X35	Soln	3
1115081	5-6	19:40	X36	Soln	3
1115082	5-6	19:45	X37	Soln	3
1115083	5-6	19:50	X38	Soln	3
1115084	5-6	19:55	X39	Soln	3
1115085	5-6	20:00	X40	Soln	3
1115086	5-6	20:05	X41	Soln	3
1115087	5-6	20:10	X42	Soln	3
1115088	5-6	20:15	X43	Soln	3
1115089	5-6	20:20	X44	Soln	3
1115090	5-6	20:25	X45	Soln	3
1115091	5-6	20:30	X46	Soln	3
1115092	5-6	20:35	X47	Soln	3
1115093	5-6	20:40	X48	Soln	3
1115094	5-6	20:45	X49	Soln	3
1115095	5-6	20:50	X50	Soln	3
1115096	5-6	20:55	X51	Soln	3
1115097	5-6	21:00	X52	Soln	3
1115098	5-6	21:05	X53	Soln	3
1115099	5-6	21:10	X54	Soln	3
1115100	5-6	21:15	X55	Soln	3
1115101	5-6	21:20	X56	Soln	3
1115102	5-6	21:25	X57	Soln	3
1115103	5-6	21:30	X58	Soln	3
1115104	5-6	21:35	X59	Soln	3
1115105	5-6	21:40	X60	Soln	3
1115106	5-6	21:45	X61	Soln	3
1115107	5-6	21:50	X62	Soln	3
1115108	5-6	21:55	X63	Soln	3
1115109	5-6	22:00	X64	Soln	3
1115110	5-6	22:05	X65	Soln	3
1115111	5-6	22:10	X66	Soln	3
1115112	5-6	22:15	X67	Soln	3
1115113	5-6	22:20	X68	Soln	3
1115114	5-6	22:25	X69	Soln	3
1115115	5-6	22:30	X70	Soln	3
1115116	5-6	22:35	X71	Soln	3
1115117	5-6	22:40	X72	Soln	3
1115118	5-6	22:45	X73	Soln	3
1115119	5-6	22:50	X74	Soln	3
1115120	5-6	22:55	X75	Soln	3
1115121	5-6	23:00	X76	Soln	3
1115122	5-6	23:05	X77	Soln	3
1115123	5-6	23:10	X78	Soln	3
1115124	5-6	23:15	X79	Soln	3
1115125	5-6	23:20	X80	Soln	3
1115126	5-6	23:25	X81	Soln	3
1115127	5-6	23:30	X82	Soln	3
1115128	5-6	23:35	X83	Soln	3
1115129	5-6	23:40	X84	Soln	3
1115130	5-6	23:45	X85	Soln	3
1115131	5-6	23:50	X86	Soln	3
1115132	5-6	23:55	X87	Soln	3
1115133	5-6	24:00	X88	Soln	3
1115134	5-6	24:05	X89	Soln	3
1115135	5-6	24:10	X90	Soln	3
1115136	5-6	24:15	X91	Soln	3
1115137	5-6	24:20	X92	Soln	3
1115138	5-6	24:25	X93	Soln	3
1115139	5-6	24:30	X94	Soln	3
1115140	5-6	24:35	X95	Soln	3
1115141	5-6	24:40	X96	Soln	3
1115142	5-6	24:45	X97	Soln	3
1115143	5-6	24:50	X98	Soln	3
1115144	5-6	24:55	X99	Soln	3
1115145	5-6	25:00	X100	Soln	3
1115146	5-6	25:05	X101	Soln	3
1115147	5-6	25:10	X102	Soln	3
1115148	5-6	25:15	X103	Soln	3
1115149	5-6	25:20	X104	Soln	3
1115150	5-6	25:25	X105	Soln	3
1115151	5-6	25:30	X106	Soln	3
1115152	5-6	25:35	X107	Soln	3
1115153	5-6	25:40	X108	Soln	3
1115154	5-6	25:45	X109	Soln	3
1115155	5-6	25:50	X110	Soln	3
1115156	5-6	25:55	X111	Soln	3
1115157	5-6	26:00	X112	Soln	3
1115158	5-6	26:05	X113	Soln	3
1115159	5-6	26:10	X114	Soln	3
1115160	5-6	26:15	X115	Soln	3
1115161	5-6	26:20	X116	Soln	3
1115162	5-6	26:25	X117	Soln	3
1115163	5-6	26:30	X118	Soln	3
1115164	5-6	26:35	X119	Soln	3
1115165	5-6	26:40	X120	Soln	3
1115166	5-6	26:45	X121	Soln	3
1115167	5-6	26:50	X122	Soln	3
1115168	5-6	26:55	X123	Soln	3
1115169	5-6	27:00	X124	Soln	3
1115170	5-6	27:05	X125	Soln	3
1115171	5-6	27:10	X126	Soln	3
1115172	5-6	27:15	X127	Soln	3
1115173	5-6	27:20	X128	Soln	3
1115174	5-6	27:25	X129	Soln	3
1115175	5-6	27:30	X130	Soln	3
1115176	5-6	27:35	X131	Soln	3
1115177	5-6	27:40	X132	Soln	3
1115178	5-6	27:45	X133	Soln	3
1115179	5-6	27:50	X134	Soln	3
1115180	5-6	27:55	X135	Soln	3
1115181	5-6	28:00	X136	Soln	3
1115182	5-6	28:05	X137	Soln	3
1115183	5-6	28:10	X138	Soln	3
1115184	5-6	28:15	X139	Soln	3
1115185	5-6	28:20	X140	Soln	3
1115186	5-6	28:25	X141	Soln	3
1115187	5-6	28:30	X142	Soln	3
1115188	5-6	28:35	X143	Soln	3
1115189	5-6	28:40	X144	Soln	3
1115190	5-6	28:45	X145	Soln	3
1115191	5-6	28:50	X146	Soln	3
1115192	5-6	28:55	X147	Soln	3
1115193	5-6	29:00	X148	Soln	3
1115194	5-6	29:05	X149	Soln	3
1115195	5-6	29:10	X150	Soln	3
1115196	5-6	29:15	X151	Soln	3
1115197	5-6	29:20	X152	Soln	3
1115198	5-6	29:25	X153	Soln	3
1115199	5-6	29:30	X154	Soln	3
1115200	5-6	29:35	X155	Soln	3
1115201	5-6	29:40	X156	Soln	3
1115202	5-6	29:45	X157	Soln	3
1115203	5-6	29:50	X158	Soln	3
1115204	5-6	29:55	X159	Soln	3
1115205	5-6	30:00	X160	Soln	3
1115206	5-6	30:05	X161	Soln	3
1115207	5-6	30:10	X162	Soln	3
1115208	5-6	30:15	X163	Soln	3
1115209	5-6	30:20	X164	Soln	3
1115210	5-6	30:25	X165	Soln	3
1115211	5-6	30:30	X166	Soln	3
1115212	5-6	30:35	X167	Soln	3
1115213	5-6	30:40	X168	Soln	3
1115214	5-6	30:45	X169	Soln	3
1115215	5-6	30:50	X170	Soln	3
1115216	5-6	30:55	X171	Soln	3
1115217	5-6	31:00	X172	Soln	3
1115218	5-6	31:05	X173	Soln	3
1115219	5-6	31:10	X174	Soln	3
1115220	5-6	31:15	X175	Soln	3
1115221	5-6	31:20	X176	Soln	3
1115222	5-6	31:25	X177	Soln	3
1115223	5-6	31:30	X178	Soln	3
1115224	5-6	31:35	X179	Soln	3
1115225	5-6	31:40	X180	Soln	3
1115226	5-6	31:45	X181	Soln	3
1115227	5-6	31:50	X182	Soln	3
1115228	5-6	31:55	X183	Soln	3
1115229	5-6	32:00	X184	Soln	3
1115230	5-6	32:05	X185	Soln	3
1115231	5-6	32:10	X186	Soln	3
1115232	5-6	32:15	X187	Soln	3
1115233	5-6	32:20	X188	Soln	3
1115234	5-6	32:25	X189	Soln	3
1115235	5-6	32:30	X190	Soln	3
1115236	5-6	32:35	X191	Soln	3
1115237	5-6	32:40	X192	Soln	3
1115238	5-6	32:45	X193	Soln	3
1115239	5-6	32:50	X194	Soln	3
1115240	5-6	32:55	X195	Soln	3
1115241	5-6	33:00	X196	Soln	3
1115242	5-6	33:05	X197	Soln	3
1115243	5-6	33:10	X198	Soln	3
1115244	5-6</				

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: Kent + Sullivan WORKORDER NO: 0405096
 PROJECT MANAGER: Debbie Fazio INITIALS: dw DATE: 5/12/04

1. Does this project require any special handling in addition to standard Paragon procedures?	<input checked="" type="checkbox"/> Yes	No	
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		<input checked="" type="checkbox"/> Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? <u>2 each</u>	N/A	<input checked="" type="checkbox"/> Yes	No
3. Are the custody seals on sample containers intact?	<input checked="" type="checkbox"/> N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?	<input checked="" type="checkbox"/> (Yes)	No	
5. Is the COC complete? Relinquished: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Analyses Requested: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Sample ID's: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Matrix: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No. of Containers: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes	No
7. Were COC (if applicable) and sample labels legible?	<input checked="" type="checkbox"/> Yes	No	
8. Were airbills present and/or removable?	N/A	<input checked="" type="checkbox"/> Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)? Are all aqueous non-preserved samples at the correct pH?	<input checked="" type="checkbox"/> N/A	Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?	<input checked="" type="checkbox"/> Yes	No	
11. Are all samples within holding times for the requested analyses?	<input checked="" type="checkbox"/> Yes	No	
12. Were all sample containers received intact? (not broken or leaking, etc.)	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? Size of bubble: <u>< green pea</u> ; <u>> green pea</u> (List sample IDs and affected containers on Page 2)	<input checked="" type="checkbox"/> N/A	Yes	No
14. Were samples checked for and free from the presence of residual chlorine?	<input checked="" type="checkbox"/> N/A	Yes	No
15. Were the sample(s) shipped on ice?	<input checked="" type="checkbox"/> N/A	Yes	No
16. Were cooler temperatures measured at 0.1 - 6 °C? IR Gun Used # <u>1</u> <u>2</u>	N/A	Yes	<input checked="" type="checkbox"/> No
17. Were all samples cooled that should have been cooled?	N/A	Yes	<input checked="" type="checkbox"/> No

Cooler #'s 724 848 847 749 868 22
 Temperature 10° 10° 9° 15° 12° 14° ° C

Project Manager Signature / Date: Debbie Fazio 5/12/04

A NO RESPONSE TO ANY QUESTION EXCEPT # 1 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

* IR Gun #1 (original): Raytek, SN SC-PM3/T29403
 IR Gun #2 (newer): Oakton, SN 2SCIR1201

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: Kent + Sullivan WORKORDER NO: 7405096
 PROJECT MANAGER: Debbie Fazio INITIALS: DW DATE: 5/12/04

- Custody seals broken (on outside of shipping container or on sample containers).
No Chain-of-Custody (COC) present.
- Number of samples on the COC do not match the number of samples received.
Aqueous samples not preserved correctly (see pH discussion below).
- SVOC samples contained residual chlorine (list sample IDs and affected containers below).
- Samples received at inappropriate temperature.
- Insufficient sample to perform requested analyses.
- Extraction or analytical holding times expired in transit.
- Broken/leaking bottles and intact bottles received in same cooler (list affected sample IDs below).
- No analyses requested.
- Incorrect sample type received.
- VOAs, reactive CN/S, radon not headspace free (list sample IDs and affected vials below).
- Airbills not present and/or removable (record applicable shipper's tracking number below).
- Other (describe below).

Describe discrepancy:

- All samples received between 9° - 15° C. Refer to page 1 for cooler temperatures and refer to DOT Survey pages for cooler contents. Insufficient ice packed with samples.
- Sample #17, bottle 3: Container received with a small crack in lid, no loss of sample was apparent, lid was replaced during sample check-in.

Was the client contacted? No; Yes: Name Sue Kent Date/Time 5/14/04

Was the pH of any sample adjusted by the laboratory? No; Yes (see Table below):

NOTE: No pH adjustments shall be made without prior consent of Project Manager. After pH adjustment, hold metals and radchem samples ≥ 16 hr before analysis.

Sample ID	Initial pH	Final pH (wait 30 min)	Type of Reagent Used	Lot No. of Reagent Used	Initials / Date / Time

Was the laboratory directed to proceed with the analysis of any samples yielding the presence of residual chlorine? No; Yes (see notes above).

Project Manager Signature / Date: 5/14/04

000012

SAMPLE LOGIN / DOT SURVEY

Client: Kent & SullivanWorkorder No: 0405096 & 0405097Project Manager: Debbie FazioInitials: AWDate: 05/12/04COOLER #: 924External Micro R Meter Reading (μ R/hr): 190

Paragon Sample ID:	Client Sample ID:	Micro R Meter Reading (μ R/hr):
0405096-1-1	MSED-01	< background
0405096-1-2	MSED-01	< background
0405096-2-1	MSED-02	< background
0405096-2-2	MSED-02	< background
0405096-2-3	MSED-02	< background
0405096-3-1	MSED-03	< background
0405096-3-2	MSED-03	< background
0405096-3-3	MSED-03	< background
0405096-7-1	MSED-07	< background
0405096-7-2	MSED-07	< background
0405096-7-3	MSED-07	35
0405096-8-1	MSED-08	75
0405096-8-2	MSED-08	< background
0405096-8-3	MSED-08	30
0405096-9-1	MSED-09	< background
0405096-9-2	MSED-09	< background
0405096-9-3	MSED-09	150
0405096-10-1	MSED-10	> background
0405096-10-2	MSED-10	30
0405096-10-3	MSED-10	40
0405096-16-1	SSED-06	< background
0405096-16-2	SSED-06	< background
0405096-16-3	SSED-06	< background
0405097-2-1	MR-01	70
0405097-2-2	MR-01	60
0405097-2-3	MR-01	80
0405097-3-1	MR-02	85
0405097-3-2	MR-02	85
0405097-3-3	MR-02	85
0405097-17-1	300-01	800

If applicable, was the client contacted? YES / NO / NA Client Rep. Name: Stu Kent Date/Time: 5/14/04Project Manager Signature/ Date: DJ 5/14/04

000013

SAMPLE LOGIN / DOT SURVEY

Client: Kent & SullivanWorkorder No: 0405096 & 0405097Project Manager: Debbie FazioInitials: AWDate: 05/12/04COOLER #: 898External Micro R Meter Reading (μ R/hr): 140

Paragon Sample ID:	Client Sample ID:	Micro R Meter Reading (μ R/hr):
0405096-4-1	MSED-04	< background
0405096-4-2	MSED-04	< background
0405096-4-3	MSED-04	< background
0405096-11-1	SSED-01	< background
0405096-11-2	SSED-01	< background
0405096-11-3	SSED-01	< background
0405096-26-1	SOIL-02	< background
0405096-26-2	SOIL-02	< background
0405096-26-3	SOIL-02	< background
0405096-27-1	SOIL-04	< background
0405096-27-2	SOIL-04	40
0405096-27-3	SOIL-04	< background
0405096-28-1	SOIL-05	30
0405096-28-2	SOIL-05	< background
0405096-28-3	SOIL-05	< background
0405097-4-1	GR-01	< background
0405097-6-1	GR-03	< background
0405097-13-1	GR-10	< background
0405097-14-1	QM-01	< background
0405097-16-1	QM-03	< background
0405097-18-1	300-02	45
0405097-19-1	700-01	1000
0405097-19-2	700-01	950
0405097-19-3	700-01	1100

If applicable, was the client contacted? YES / NO / NA Client Rep. Name: Sue Kurlit Date/Time: 5/14/04Project Manager Signature/ Date: J. 5/14/04

SAMPLE LOGIN / DOT SURVEY

Client: Kent & SullivanWorkorder No: 0405096 & 0405097Project Manager: Debbie FazioInitials: AW Date: 05/12/04COOLER #: 897External Micro R Meter Reading (μ R/hr): 320

Paragon Sample ID:	Client Sample ID:	Micro R Meter Reading (μ R/hr):
0405096-5-1	MSED-05	< background
0405096-5-2	MSED-05	< background
0405096-5-3	MSED-05	< background
0405096-21-1	GEN-01	28
0405096-21-2	GEN-01	28
0405096-22-1	GEN-02	30
0405096-22-2	GEN-02	29
0405096-22-3	GEN-02	< background
0405096-22-4	GEN-02	< background
0405096-22-5	GEN-02	< background
0405096-23-1	GEN-03	< background
0405096-23-2	GEN-03	< background
0405096-24-1	GEN-04	< background
0405096-24-2	GEN-04	< background
0405097-9-1	GR-06	30
0405097-11-1	GR-08	< background
0405097-15-1	QM-02	< background
0405097-20-1	700-02	250
0405097-24-1	900-02	1500
0405097-25-1	900-03	300
0405097-27-1	900-05	100

If applicable, was the client contacted? YES / NO / NA Client Rep. Name: Sue Kett Date/Time: 5/14/04Project Manager Signature/ Date: Debbie Fazio 5/14/04

SAMPLE LOGIN / DOT SURVEY

Client: Kent & SullivanWorkorder No: 0405096 & 0405097Project Manager: Debbie FazioInitials: AWDate: 05/12/04COOLER #: 749External Micro R Meter Reading (μ R/hr): 300**Paragon Sample ID:**

0405096-6-1
 0405096-12-1
 0405096-12-2
 0405096-12-3
 0405096-18-1
 0405096-18-2
 0405096-18-3
 0405096-19-1
 0405096-19-2
 0405096-19-3
 0405096-25-1
 0405096-25-2
 0405096-25-3

Client Sample ID:

MSED-06
 SSED-02
 SSED-02
 SSED-02
 SSED-08
 SSED-08
 SSED-08
 SSED-09
 SSED-09
 SSED-09
 SOIL-01
 SOIL-01
 SOIL-01

Micro R Meter Reading (μ R/hr):

40
 40
 < background
 < background
 < background
 < background
 30
 < background
 < background
 < background
 < background
 < background
 < background

0405097-1-1
 0405097-5-1
 0405097-7-1
 0405097-28-1
 0405097-28-2
 0405097-28-3

HR-01
 GR-02
 GR-04
 OSA-01
 OSA-01
 OSA-01

140
 < background
 90
 1200
 1100
 1200

If applicable, was the client contacted? YES / NO / NA Client Rep. Name: Sullivan Date/Time: 5/14/04Project Manager Signature/ Date: Debbie Fazio 5/14/04

SAMPLE LOGIN / DOT SURVEY

Client: Kent & SullivanWorkorder No: 0405096 & 0405097Project Manager: Debbie FazioInitials: AW Date: 05/12/04COOLER #: 868External Micro R Meter Reading (μ R/hr): 320

Paragon Sample ID:	Client Sample ID:	Micro R Meter Reading (μ R/hr):
0405096-13-1	SSED-03	< background
0405096-13-2	SSED-03	< background
0405096-13-3	SSED-03	< background
0405096-14-1	SSED-04	< background
0405096-14-2	SSED-04	< background
0405096-14-3	SSED-04	< background
0405096-15-1	SSED-05	< background
0405096-15-2	SSED-05	< background
0405096-15-3	SSED-05	< background
0405096-17-1	SSED-07	< background
0405096-17-2	SSED-07	< background
0405096-17-3	SSED-07	< background
0405096-20-1	SSED-10	< background
0405096-20-2	SSED-10	< background
0405096-20-3	SSED-10	< background
0405097-8-1	GR-05	< background
0405097-10-1	GR-07	< background
0405097-12-1	GR-09	< background
0405097-21-1	700-03	800
0405097-21-2	700-03	950
0405097-21-3	700-03	850
0405097-26-1	900-04	95
0405097-29-1	OSA-02	180
0405097-29-2	OSA-02	150
*0405097-29-3	OSA-02	160
0405097-30-1	OSA-03	200
0405097-30-2	OSA-03	250
0405097-30-3	OSA-03	150

If applicable, was the client contacted? YES / NO / NA Client Rep. Name: Sue Kent Date/Time: 5/14/04Project Manager Signature/ Date: D.Fazio 5/14/04

SAMPLE LOGIN / DOT SURVEY

Client: Kent & SullivanWorkorder No: 0405096 & 0405097Project Manager: Debbie FazioInitials: AW Date: 05/12/04COOLER #: 22External Micro R Meter Reading (μ R/hr): 260**Paragon Sample ID:**

0405096-29-1
 0405096-29-2
 0405096-29-3
 0405096-30-1
 0405096-30-2
 0405096-30-3
 0405096-31-1
 0405096-31-2
 0405096-31-3
 0405096-32-1
 0405096-32-2
 0405096-32-3
 .
 0405097-22-1
 0405097-23-1
 0405097-23-2
 0405097-23-3

Client Sample ID:

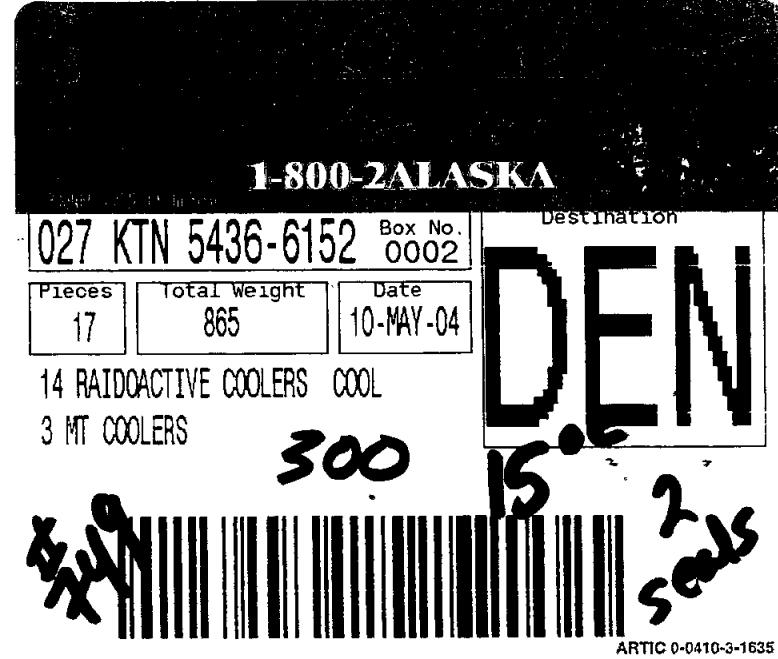
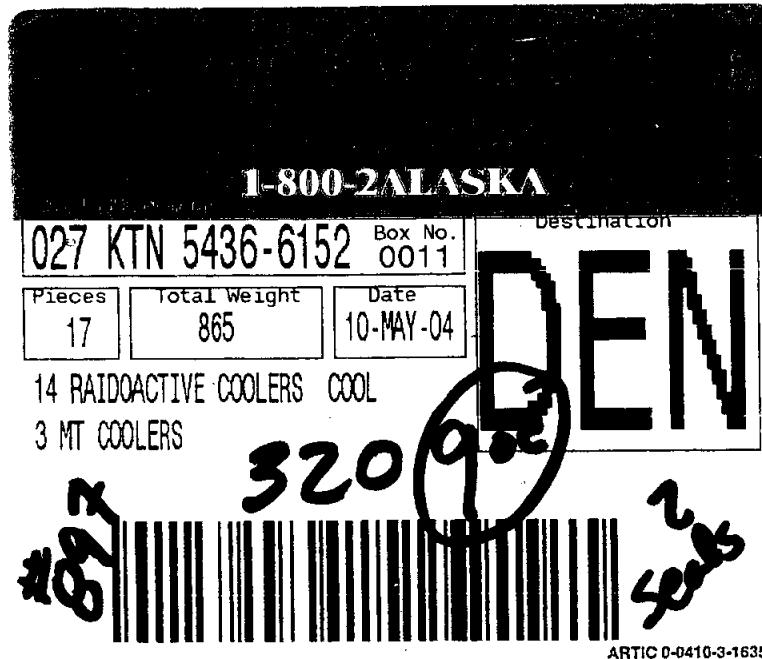
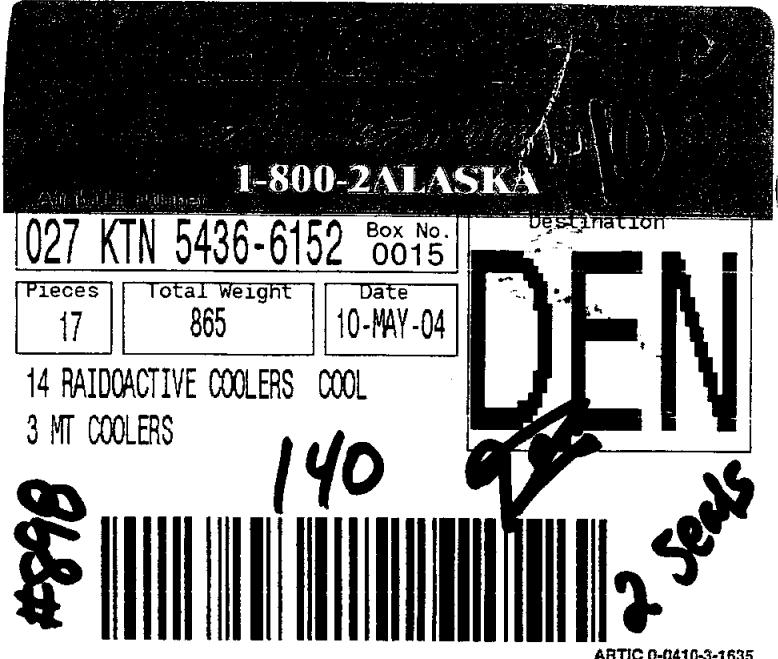
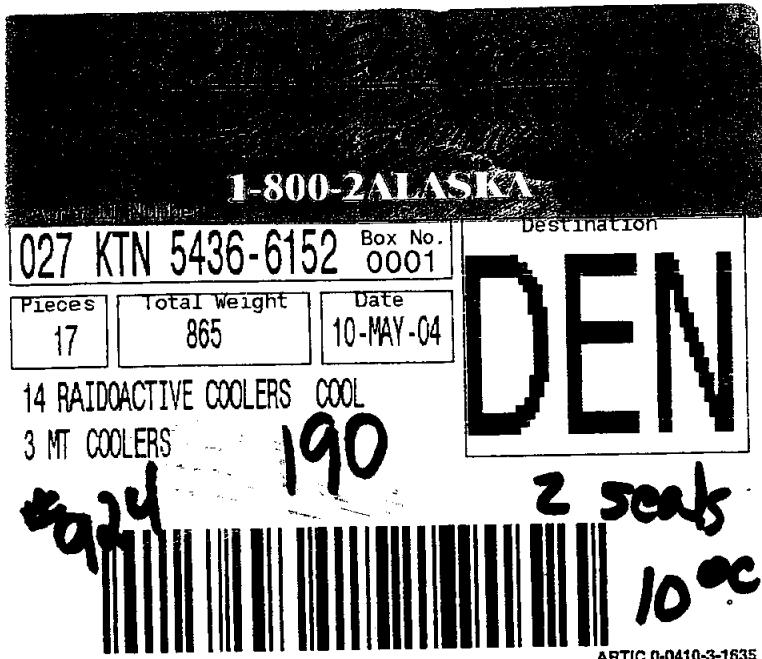
SOIL-07
 SOIL-07
 SOIL-07
 SOIL-08
 SOIL-08
 SOIL-08
 SOIL-09
 SOIL-09
 SOIL-09
 SOIL-10
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 700-04
 900-01
 900-01
 900-01

Micro R Meter Reading (μ R/hr):

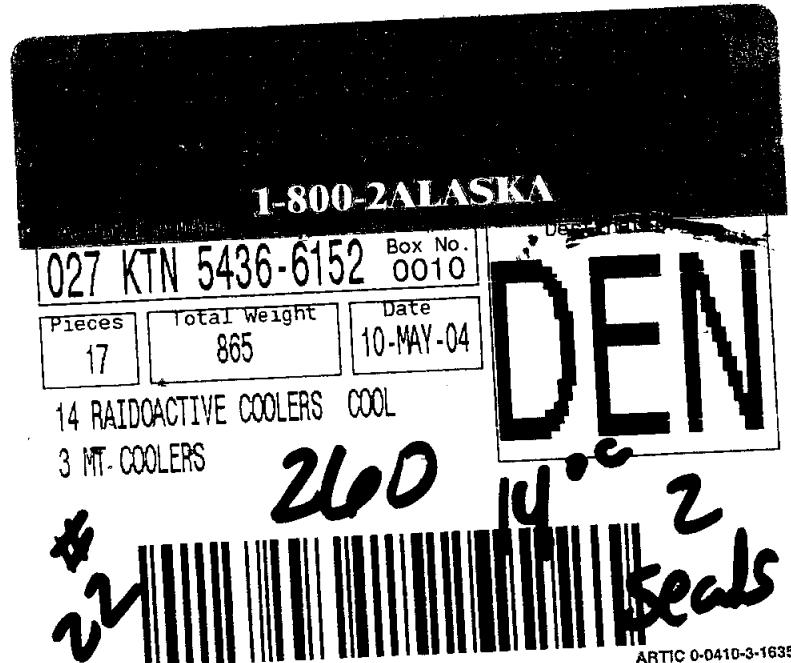
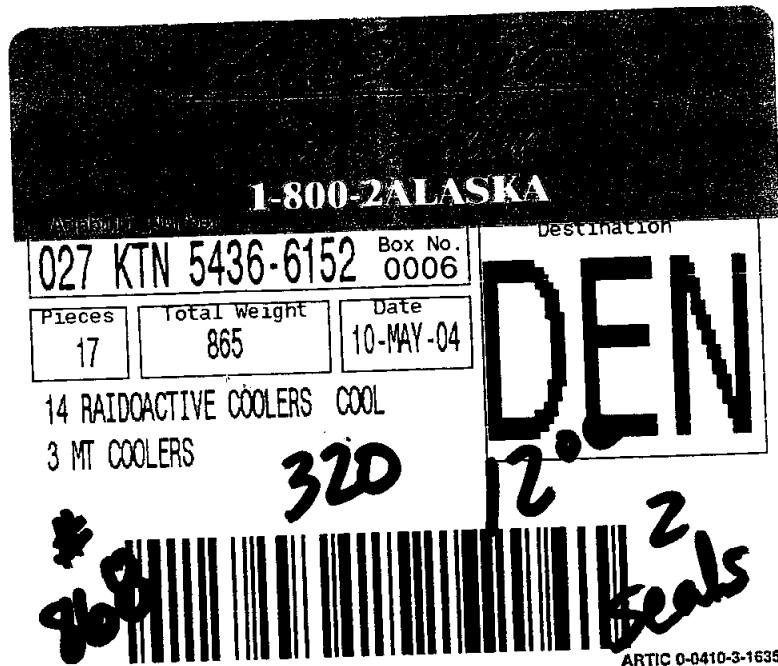
< background
 < background
 < background
 45
 40
 40
 < background
 < background
 < background
 55
 50
 65
 450
 110
 110
 140

If applicable, was the client contacted? YES / NO / NA Client Rep. Name: Sue Kent Date/Time: 5/11/04Project Manager Signature/ Date: D/Fazio 5/11/04

0405096
0405097



0405096
0405097



0000023

0405096
0405097

1-800-2ALASKA

027 KTN 5436-6152 Box No.
0001

Pieces Total Weight Date
17 865 10-MAY-04

14 RAIDOCATIVE COOLERS COOL

3 MT COOLERS

190

Destination

DEN

#824

2 seats
10⁰⁰

ARTIC 0-0410-3-1635

1-800-2ALASKA

027 KTN 5436-6152 Box No.
0015

Pieces Total Weight Date
17 865 10-MAY-04

14 RAIDOCATIVE COOLERS COOL

3 MT COOLERS

140

Destination

DEN

#898



ARTIC 0-0410-3-1635

1-800-2ALASKA

027 KTN 5436-6152 Box No.
0011

Destination

DEN

Pieces Total Weight Date
17 865 10-MAY-04

14 RAIDOCATIVE COOLERS COOL

3 MT COOLERS

320 9⁰⁰

#825

ARTIC 0-0410-3-1635

1-800-2ALASKA

027 KTN 5436-6152 Box No.
0002

Pieces Total Weight Date
17 865 10-MAY-04

14 RAIDOCATIVE COOLERS COOL

3 MT COOLERS

300

Destination

DEN

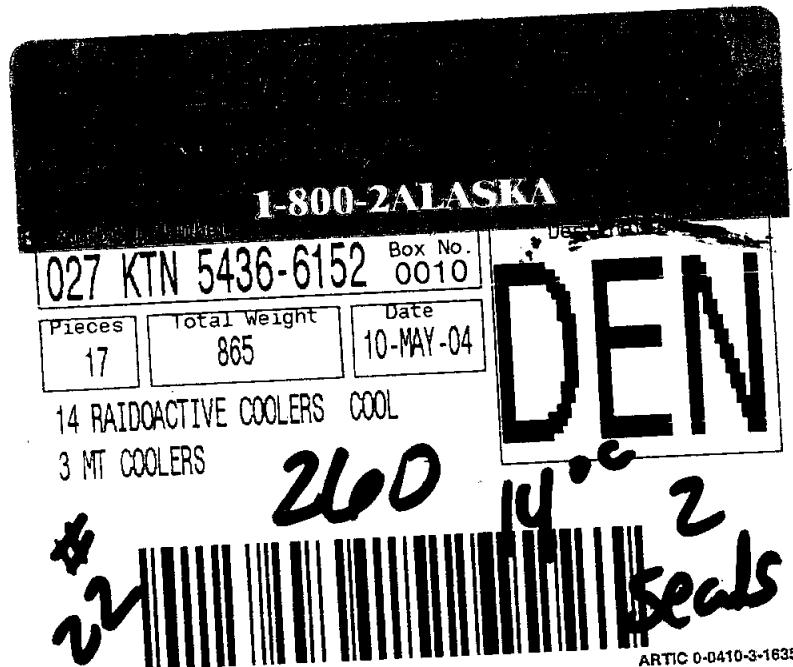
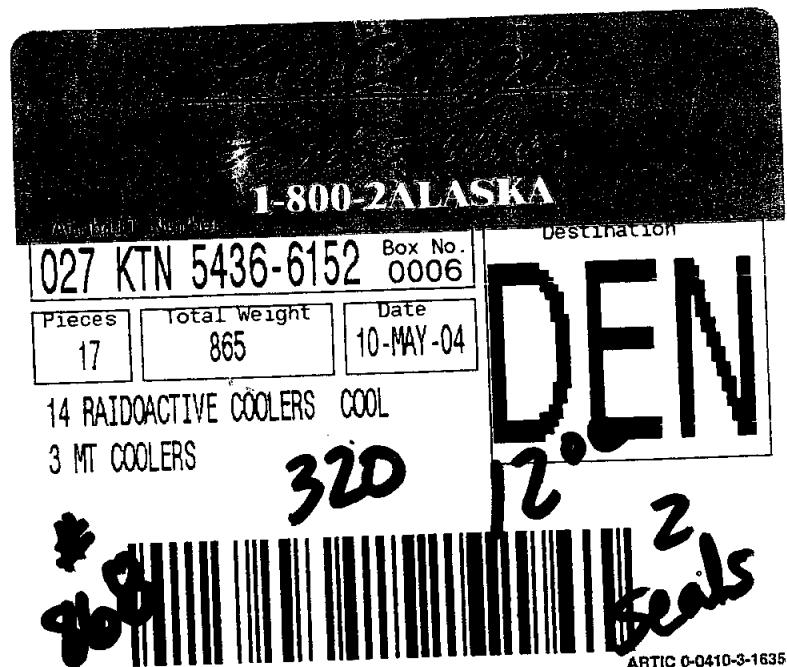
#826



ARTIC 0-0410-3-1635

000021

0405096
0405097



0000122

Analytical Results

Total Extractable Hydrocarbons

Method SW8015MCALUFT Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0405096

Client Name: Kent & Sullivan Inc.

ClientProject ID: Ross Adams

Lab ID: EX040517-11MB	Sample Matrix: SOIL % Moisture: N/A Date Collected: N/A Date Extracted: 05/17/2004 Date Analyzed: 05/31/2004	Prep Batch: EX040517-11 QCBatchID: EX040517-11-1 Run ID: HCD040601-2A Cleanup: NONE Basis: N/A	Sample Aliquot: 20 g Final Volume: 5 ml Result Units: mg/kg Clean DF: 1 File Name: F3F16429
<hr/>			
CASNO	Target Analyte	DF	Result
68334-30-5	MOTOR OIL RANGE ORGANICS Diesel Range Organics	1 1	10 10
			10 10
			U U

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	11.8		12.5	94	60 - 140

Data Package ID: HCD0405096-1

Date Printed: Wednesday, June 09, 2004

Paragon Analytics

LIMS Version: 5.028A

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Total Extractable Hydrocarbons

Method SW8015MCALUFT Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0405096

Client Name: Kent & Sullivan Inc.

ClientProject ID: Ross Adams

Field ID: GEN-01	Sample Matrix: SOIL	Prep Batch: EX040517-11	Sample Aliquot: 20.09 g
Lab ID: 0405096-21	% Moisture: 12.1	QCBatchID: EX040517-11-1	Final Volume: 5 ml
	Date Collected: 07-May-04	Run ID: HCD040601-2A	Result Units: mg/kg
	Date Extracted: 17-May-04	Cleanup: NONE	Clean DF: 1
	Date Analyzed: 02-Jun-04	Basis: Dry Weight	File Name: F3F16464

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
	MOTOR OIL RANGE ORGANICS	50	5400	570	L,Y	
68334-30-5	Diesel Range Organics	50	10000	570	H,Y	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL		X	14.2		60 - 140

The chromatogram for Diesel Range Organics indicates the presence of hydrocarbons in the range of C9-C25.

The chromatogram for MOTOR OIL RANGE ORGANICS indicates the presence of hydrocarbons in the range of C25-C34.

Data Package ID: HCD0405096-1

Date Printed: Wednesday, June 09, 2004

Paragon Analytics

LIMS Version: 5.028A

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Total Extractable Hydrocarbons

Method SW8015MCALUFT

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0405096

Client Name: Kent & Sullivan Inc.

ClientProject ID: Ross Adams

Field ID: GEN-02
Lab ID: 0405096-22

Sample Matrix: SOIL
% Moisture: 3.1
Date Collected: 07-May-04
Date Extracted: 17-May-04
Date Analyzed: 02-Jun-04

Prep Batch: EX040517-11
QCBatchID: EX040517-11-1
Run ID: HCD040601-2A
Cleanup: NONE
Basis: Dry Weight

Sample Aliquot: 20.05 g
Final Volume: 5 ml
Result Units: mg/kg
Clean DF: 1
File Name: F3F16465

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
	MOTOR OIL RANGE ORGANICS	200	47000	2100	M	
68334-30-5	Diesel Range Organics	200	1900	2100	J	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL		X	12.9		60 - 140

The chromatogram for MOTOR OIL RANGE ORGANICS indicates the presence of hydrocarbons in the range of C25-C35.

Data Package ID: HCD0405096-1

Date Printed: Wednesday, June 09, 2004

Paragon Analytics

LIMS Version: 5.028A

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Total Extractable Hydrocarbons

Method SW8015MCALUFT Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0405096

Client Name: Kent & Sullivan Inc.

ClientProject ID: Ross Adams

Field ID: GEN-03	Sample Matrix: SOIL	Prep Batch: EX040517-11	Sample Aliquot: 20.05 g
Lab ID: 0405096-23	% Moisture: 14.7	QCBatchID: EX040517-11-1	Final Volume: 5 ml
	Date Collected: 07-May-04	Run ID: HCD040601-2A	Result Units: mg/kg
	Date Extracted: 17-May-04	Cleanup: NONE	Clean DF: 1
	Date Analyzed: 02-Jun-04	Basis: Dry Weight	File Name: F3F16466

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
	MOTOR OIL RANGE ORGANICS	50	4700	580	M,H	
68334-30-5	Diesel Range Organics	50	410	580	J	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL		X	14.6		60 - 140

The chromatogram for MOTOR OIL RANGE ORGANICS indicates the presence of hydrocarbons in the range of C25-C35.

Data Package ID: HCD0405096-1

Date Printed: Wednesday, June 09, 2004

Paragon Analytics

LIMS Version: 5.028A

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Total Extractable Hydrocarbons

Method SW8015MCALUFT Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0405096

Client Name: Kent & Sullivan Inc.

ClientProject ID: Ross Adams

Field ID: GEN-04	Sample Matrix: SOIL	Prep Batch: EX040517-11	Sample Aliquot: 20.01 g
Lab ID: 0405096-24	% Moisture: 3.1	QCBatchID: EX040517-11-1	Final Volume: 5 ml
	Date Collected: 07-May-04	Run ID: HCD040601-2A	Result Units: mg/kg
	Date Extracted: 17-May-04	Cleanup: NONE	Clean DF: 1
	Date Analyzed: 02-Jun-04	Basis: Dry Weight	File Name: F3F16467

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
	MOTOR OIL RANGE ORGANICS	200	46000	2100	M	
68334-30-5	Diesel Range Organics	200	2100	2100	J	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL		X	12.9		60 - 140

The chromatogram for MOTOR OIL RANGE ORGANICS indicates the presence of hydrocarbons in the range of C25-C37.

Data Package ID: HCD0405096-1

Date Printed: Wednesday, June 09, 2004

Paragon Analytics

LIMS Version: 5.028A

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Supporting QA/QC Data

Surrogate Summary for Total Extractable Hydrocarbons

Method SW8015MCALUFT

Lab Name: Paragon Analytics

Work Order Number: 0405096

Client Name: Kent & Sullivan Inc.

ClientProject ID: Ross Adams

PrepBatchID: EX040517-11
QC Batch ID: EX040517-11-1
Date Extracted: 5/17/2004

Surrogate Compound	Control Limits	
	Lower	Upper
o-terphenyl	60	140

Lab ID	Client Sample ID	Date Collected	Date Received	% Recovery
0405096-21	GEN-01	5/7/2004	5/11/2004	
0405096-22	GEN-02	5/7/2004	5/11/2004	
0405096-23	GEN-03	5/7/2004	5/11/2004	
0405096-24	GEN-04	5/7/2004	5/11/2004	
EX040517-11MB	XXXXXX	5/17/2004	5/11/2004	94
EX040517-11LCSD	XXXXXX	5/17/2004	5/11/2004	90
EX040517-11LCS	XXXXXX	5/17/2004	5/11/2004	89

Data Package ID: HCD0405096-1

Date Printed: Wednesday, June 09, 2004

Paragon Analytics

LIMS Version: 5.028A

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Total Extractable Hydrocarbons

Method SW8015MCALUFT

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: Paragon Analytics

Work Order Number: 0405096

Client Name: Kent & Sullivan Inc.

ClientProject ID: Ross Adams

Lab ID: EX040517-11LCS	Sample Matrix: SOIL % Moisture: N/A Date Collected: N/A Date Extracted: 05/17/2004 Date Analyzed: 05/31/2004	Prep Batch: EX040517-11 QCBatchID: EX040517-11-1 Run ID: HCD040601-2A Cleanup: NONE Basis: N/A	Sample Aliquot: 20 g Final Volume: 5 ml Result Units: mg/kg Clean DF: 1				
CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
68334-30-5	Diesel Range Organics	50	39.1	10		78	60 - 140%

Lab ID: EX040517-11LCSD

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	LCSD % Rec.	Result Qualifier	RPD	RPD Limits
68334-30-5	Diesel Range Organics	50	40.6	10	81		4	50

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
84-15-1	O-TERPHENYL	12.5	89		90		60 - 140

Data Package ID: HCD0405096-1

Date Printed: Wednesday, June 09, 2004

Paragon Analytics

LIMS Version: 5.028A

Page 1 of 1

000031

Prep Batch ID: EX040517-11

Start Date: 05/17/04

End Date: 05/17/04

Concentration Method: CRVS

Batch Created By: ckh

Start Time: 16:00

End Time: 20:00

Extract Method: METHOD

Date Created: 05/17/04

Prep Analyst: Crystal Halverson

Initial Volume Units: g

Time Created: 17:50

Comments:

Final Volume Units: ml

Validated By: ckh

Date Validated: 05/18/04

Time Validated: 13:05

QC Batch ID: EX040517-11-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX040517-11	MB	XXXXXX	SOIL	XXXXXX	20	5	NONE	1	0405096
EX040517-11	LCS	XXXXXX	SOIL	XXXXXX	20	5	NONE	1	0405096
EX040517-11	LCSD	XXXXXX	SOIL	XXXXXX	20	5	NONE	1	0405096
0405096-21	MS	GEN-01	SOIL	5/7/2004	20.05	5	NONE	1	0405096
0405096-21	MSD	GEN-01	SOIL	5/7/2004	20.03	5	NONE	1	0405096
0404191-7	SMP	XXXXXX	SOIL	XXXXXX	20	5	NONE	1	0404191
0405096-21	SMP	GEN-01	SOIL	5/7/2004	20.09	5	NONE	1	0405096
0405096-22	SMP	GEN-02	SOIL	5/7/2004	20.05	5	NONE	1	0405096
0405096-23	SMP	GEN-03	SOIL	5/7/2004	20.05	5	NONE	1	0405096
0405096-24	SMP	GEN-04	SOIL	5/7/2004	20.01	5	NONE	1	0405096

QC Types

CAR	Carrier reference sample
LCS	Laboratory Control Sample
MB	Method Blank
MSD	Laboratory Matrix Spike Duplicate
SMP	Field Sample

Initial Calibration Summary

Paragon Analytics

Inst. ID: FUELS3

C:\HPCHEM\5\METHODS\AK053104.M
Calibration Date: 05/31/04

1 = F3F16418.D 2 = F3F16419.D 3 = F3F16420.D 4 = F3F16421.D
5 = F3F16422.D 6 = F3F16423.D 7 = F3F16424.D 8 = F3F16425.D

Compounds	Calibration Factors							
	1	2	3	4	5	6	7	8
TEPH	1994.32	1896.71	1964.99	2013.81	2256.92	2453.34	3057.72	1679.55
Motor Oil	0.00	908.18	829.52	885.35	1011.07	1190.73	1603.50	1454.85
O-Terphenyl[S]	2409.84	2320.70	2398.16	2480.48	2831.75	3159.40	4062.40	2462.00

Compounds	Ave. CF	%RSD	Corr. r2	Curve fit type	Linear curve info		
					slope	y-int	x*x
TEPH	2234.0	18.4	0.999	Linear	1972.154	11172.69	0.00
Motor Oil	918.3	52.7	0.998	Linear	891.9612	10762.39	0.00
O-Terphenyl[S]	2809.0	22.4	1.000	Linear	2383.239	3662.79	0.00

Compounds	Calibration Level (µg/ml)							
	1	2	3	4	5	6	7	8
TEPH	5000	2500	1000	500	200	100	50	20
Motor Oil		2500	1000	500	200	100	50	20
O-Terphenyl[S]	500	250	100	50	20	10	5	2

CH 6|9|O4

Calibration Verification Summary

Paragon Analytics

Sample: 500 μ g/ml DRO/MORO ICV

Data File #1: C:\HPCHEM\5\DATA\05312004\F3F16445.D Column #1: DB-5.625

COMPOUND	Column #1			Col. #1	Col. #1	
	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc μ g/ml	Conc μ g/ml	%D
Motor Oil	20.000	20.000	0.000	500	512	2
TEPH	10.000	10.000	0.000	500	542	8
o-terphenyl [S]	16.240	0.000	16.240	0	0	0

CH 6/9/04

Calibration Verification Summary

Paragon Analytics

Sample: 600 μ g/ml DRO/MORO CCV1

Data File #1: C:\HPCHEM\5\DATA\05312004\F3F16427.D Column #1: DB-5.625

COMPOUND	Column #1			Col. #1 Conc μ g/ml	Col. #1 %D
	Exp. RT (min)	Found RT (min)	Dev (min)		
Motor Oil	20.000	20.000	0.000	600	563 6
TEPH	10.000	10.000	0.000	600	597 0
o-terphenyl [S]	16.240	16.247	-0.007	60	60 0

CH 6/9/04

Calibration Verification Summary

Paragon Analytics

Sample: 600 μ g/ml DRO/MORO CCV2

Data File #1: C:\HPCHEM\5\DATA\05312004\F3F16437.D Column #1: DB-5.625

COMPOUND	Column #1			Nom Conc μ g/ml	Col. #1 μ g/ml	%D
	Exp. RT (min)	Found RT (min)	Dev (min)			
Motor Oil	20.000	20.000	0.000	600	540	10
TEPH	10.000	10.000	0.000	600	562	6
o-terphenyl [S]	16.240	16.243	-0.003	60	57	5

CH 6/9/04

Calibration Verification Summary

Paragon Analytics

Sample: 600 μ g/ml DRO/MORO CCV2

Data File #1: C:\HPCHEM\5\DATA\06012004\F3F16459.D Column #1: DB-5.625

COMPOUND	Column #1			Col. #1	Col. #1	
	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc μ g/ml	Conc μ g/ml	%D
Motor Oil	20.000	20.000	0.000	600	634	6
TEPH	10.000	10.000	0.000	600	634	6
o-terphenyl [S]	16.240	16.240	0.000	60	63	6

CH 6/9/04

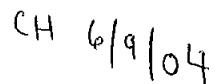
Calibration Verification Summary

Paragon Analytics

Sample: 600 μ g/ml DRO/MORO CCV3

Data File #1: C:\HPCHEM\5\DATA\06012004\F3F16468.D Column #1: DB-5.625

COMPOUND	Column #1			Col. #1	Col. #1	
	Exp. RT (min)	Found RT (min)	Dev (min)	Nom Conc μ g/ml	Conc μ g/ml	%D
Motor Oil	20.000	20.000	0.000	600	556	7
TEPH	10.000	10.000	0.000	600	574	4
o-terphenyl [S]	16.240	16.237	0.003	60	58	3



Supporting Raw Data

Instrument Name Fuels 3

Paragon Analytics, Inc.

Logbook No./Page 275627

Sequence File: C:\HPCHEM\5_SEQUENCE\05312004.S

Data Path: C:\HPCHEM\5\DATA\05312004

Hexane Lot SK016 Dichloromethane Lot CX242

Reviewed by / date

Date Analyzed 5/31/04 Operator C.H.Analytical Method F053104.mSOP F053104.mRev. 0

Form 5311.xls (9/14/2001)

Vial	Data File	Method	Sample Name	Comments
96	F3F16415	F053104	Hydrocarbon Mix	100 μL ST040518-11 + 900 μL DCM
97	F3F16416	F053104		
98	F3F16417	F053104		
-1	F3F16418	F053104	5000 μg/mL DRO/MORO	1000 μL ST040518-4
-2	F3F16419	F053104	2500 μg/mL DRO/MORO	500 μL + 500 μL DCM
-3	F3F16420	F053104	1000 μg/mL DRO/MORO	200 μL + 800 μL
-4	F3F16421	F053104	500 μg/mL DRO/MORO	100 μL + 900 μL
-5	F3F16422	F053104	200 μg/mL DRO/MORO	40 μL + 960 μL
-6	F3F16423	F053104	100 μg/mL DRO/MORO	20 μL + 980 μL
-7	F3F16424	F053104	50 μg/mL DRO/MORO	10 μL + 990 μL
-8	F3F16425	F053104	20 μg/mL DRO/MORO	4 μL + 996 μL
-9	F3F16426	F053104	500 μg/mL DRO/MORO ICV	1000 μL ST040518-4 + 100 μL ST040330-4 + 400 μL DCM Y
-10	F3F16427	F053104	600 μg/mL DRO/MORO CCV1	120 μL ST040518-4 + 880 μL DCM <u>PASS</u>
-11	F3F16428	F053104	EX040517-10MB	
-12	F3F16429	F053104	EX040517-11MB	CH 6/1/04 below mDL
-13	F3F16430	F053104	EX040517-10LCS	CH 6/1/04 w/in limits
-14	F3F16431	F053104	EX040517-10LCSD	
-15	F3F16432	F053104	EX040517-11LCS	
-16	F3F16433	F053104	EX040517-11LCSD	
-17	F3F16434	F053104	0404191-2	PE Samples
-18	F3F16435	F053104	0404191-7	
-19	F3F16436	F053104	0405121-1	
-20	F3F16437	F053104	600 μg/mL DRO/MORO CCV2	120 μL ST040518-4 + 880 μL DCM <u>PASS</u>
-21	F3F16438	F053104	0405096-21 5X	require greater dilution, all + outside calibration range
-22	F3F16439	F053104	0405096-21MS 5X	
-23	F3F16440	F053104	0405096-21MSD 5X	
-24	F3F16441	F053104	0405096-22 5X	
-25	F3F16442	F053104	0405096-23 5X	
-61	F3F16443	F053104	0405096-24 5X	
-62	F3F16444	F053104	600 μg/mL DRO/MORO CCV3	high mQ.
-63	F3F16445	F053104	500 μg/mL DRO/MORO ICV	120 μL ST040518-4 + 880 μL DCM N

05/31/04

MISS

Instrument Name FUELS3**Paragon Analytics, Inc.**Logbook No./Page 275628

Sequence File: C:\HPCHEM\5_SEQUENCE\04012004.S

Date Analyzed 6/14/04 Operator CH GC Method TEPHIData Path: C:\HPCHEM\5_DATA\04012004 Analytical Method F053104.M SOP 406 Rev. 10Hexane Lot Ck242 Reviewed by./date 6/14/04 ms Form 5312.xls (9/14/2001)

Vial	Data File	Method	Sample Name	Comments	rr?
96	F3F16446	F053104	dcm		N
97	F3F16447	F053104	dcm		
1	F3F16448	F053104	600µg/ml DRO/MORO CCV1	i20 µL ST040518-4 + 880 µL DCM	PASS
2	F3F16449	F053104	EX040528-1MB	below MDL	
3	F3F16450	F053104	EX040528-1LCS	w/in limits	
4	F3F16451	F053104	EX040528-1LCSD	↓	
5	F3F16452	F053104	0405200-1	CH 6/3/04	
6	F3F16453	F053104	0405200-1MS	w/in limits	
7	F3F16454	F053104	0405200-1MSD	↓	
8	F3F16455	F053104	0405200-2		
9	F3F16456	F053104	0405200-3		
10	F3F16457	F053104	0405204-1		
11	F3F16458	F053104	0405204-2		
12	F3F16459	F053104	600µg/ml DRO/MORO CCV2	i20 µL ST040518-4 + 880 µL DCM	PASS
13	F3F16460	F053104	0405204-3		
14	F3F16461	F053104	0405204-4		
15	F3F16462	F053104	0405204-5		
16	F3F16463	F053104	0405204-6	CH 6/3/04	
17	F3F16464	F053104	0405096-21 50X	20 µL extract + 980 µL DCM	
18	F3F16465	F053104	0405096-22 200X	5 µL extract + 995 µL DCM	
19	F3F16466	F053104	0405096-23 50X	20 µL extract + 980 µL DCM	
20	F3F16467	F053104	0405096-24 200X	5 µL extract + 995 µL DCM	
21	F3F16468	F053104	600µg/ml DRO/MORO CCV3	i20 µL ST040518-4 + 880 µL DCM	PASS

4/25/2004

000041

Calibration Raw Data

000042

Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16445.D
 Acq On : 01 Jun 04 08:47 AM
 Sample : 500µg/ml DRO/MORO ICV
 Misc : ST040330-4 10X, ST040119-16 2X
 Quant Time: Jun 9 8:25 19104

Vial: 63
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5µm
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	0.00	0	(N.D.) µg/ml
		Recovery	= 0.00% not spiked
<hr/>			
Target Compounds			
1) H TEPH	10.00	1080775	542.35 µg/ml
2) H Motor Oil	20.00	467596	512.17 µg/ml

CH 6/9/04

$$\text{TEPH} - \frac{542.35}{500} = 108.47\%$$

$$\text{M.O.} - \frac{512.17}{500} = 102.43\%$$

(f)=RT Delta > 1/2 Window

F3F16445.D AK053104.M

Wed Jun 09 08:25:12 2004

(m)=manual int.

Page 1

• 000043

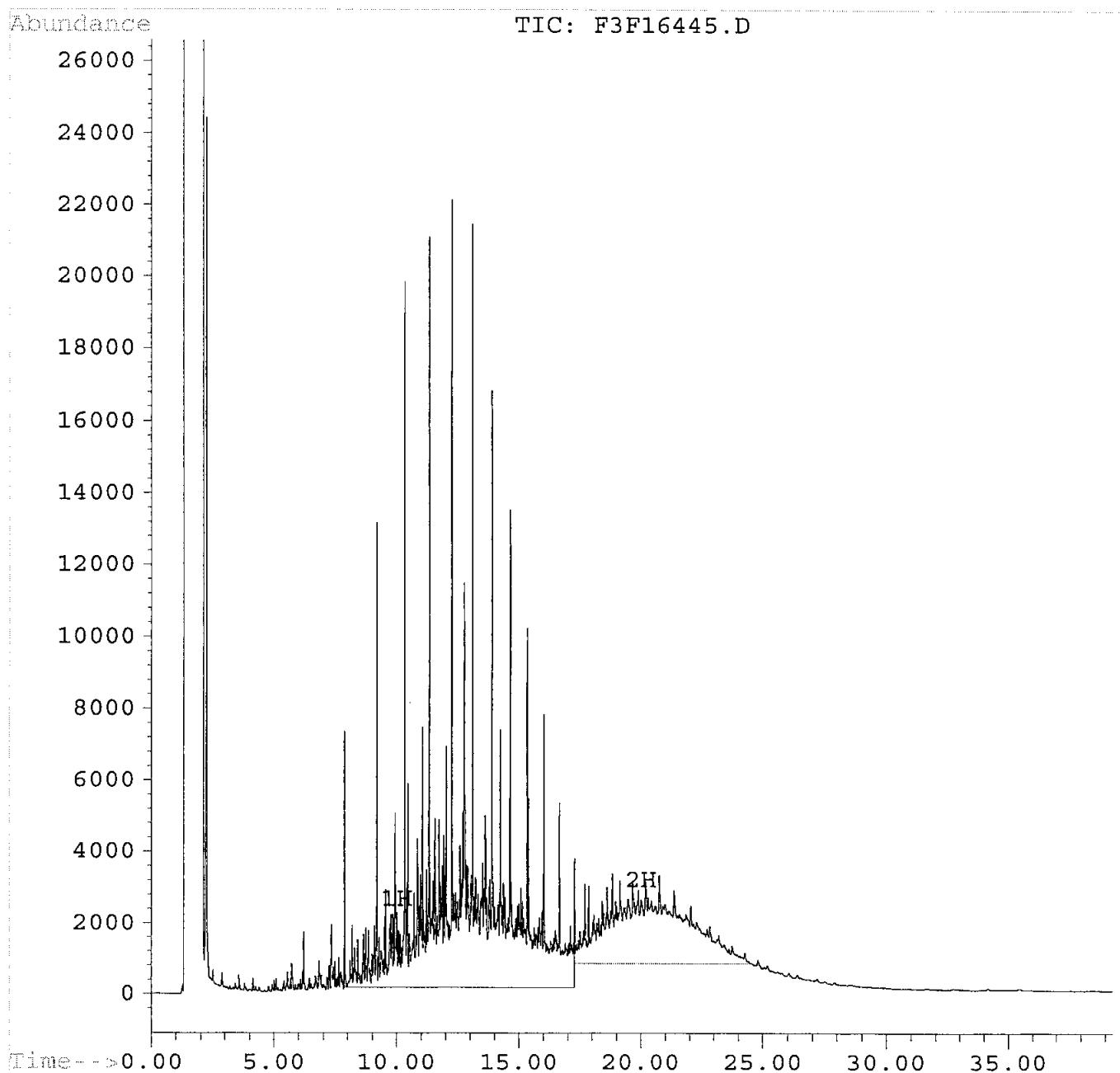
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16445.D
Acq On : 01 Jun 04 08:47 AM
Sample : 500 μ g/ml DRO/MORO ICV
Misc : ST040330-4 10X, ST040119-16 2X
Quant Time: Jun 9 8:25 19104

Vial: 63
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16418.D
 Acq On : 31 May 04 11:47 AM
 Sample : 5000 μ g/ml DRO/MORO
 Misc : std# ST040518-4
 Quant Time: Jun 1 12:24 19104

Vial: 1
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.30f	1204918	504.04	μ g/ml
		Recovery	= 1008.08%	
<hr/>				
Target Compounds				
1) H TEPH	10.00	9971603	5050.53	μ g/ml
2) H Motor Oil	20.00	-5346321	6628.39	μ g/ml
			ca 61104	

CH 61104

(f)=RT Delta > 1/2 Window

(m)=manual int.

F3F16418.D F053104.M

Tue Jun 01 12:24:42 2004

Page 1

- 000045 -

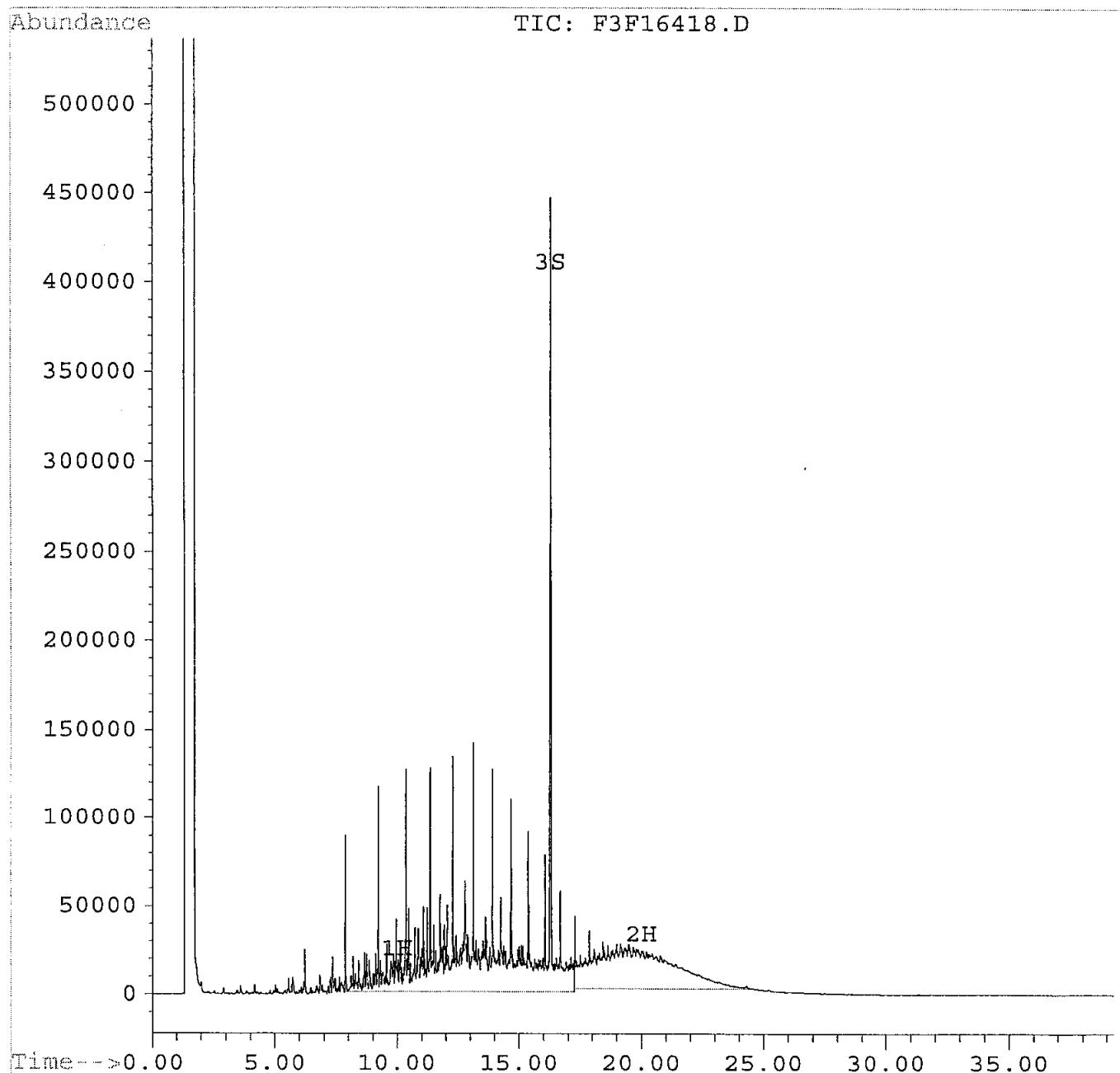
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16418.D
Acq On : 31 May 04 11:47 AM
Sample : 5000 μ g/ml DRO/MORO
Misc : std# ST040518-4
Quant Time: Jun 1 12:24 19104

Vial: 1
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16419.D
 Acq On : 31 May 04 12:35 PM
 Sample : 2500 μ g/ml DRO/MORO
 Misc : std# ST040518-4 2X
 Quant Time: Jun 1 12:24 19104

Vial: 2
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
----------	------	----------	------------

System Monitoring Compounds

3) S o-terphenyl [S]	16.27	580174	241.90 μ g/ml
		Recovery	= 483.80%

Target Compounds

1) H TEPH	10.00	4741775	2398.70 μ g/ml
2) H Motor Oil	20.00	2270449	2790.50 μ g/ml

CH 6/1/04

250 pt. for
M.O. included in
curve CH 6/9/04

CH 6/1/04

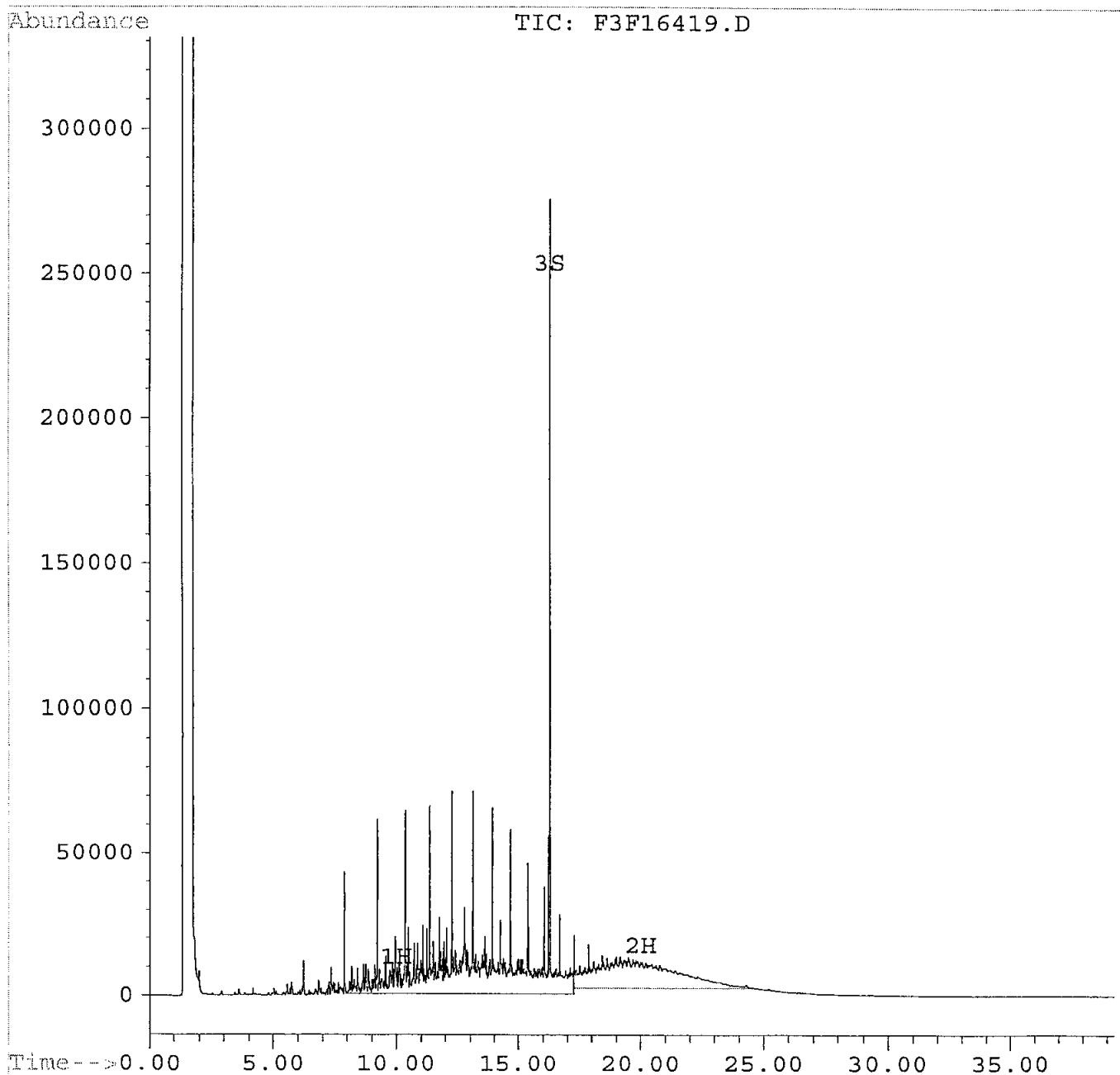
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16419.D
Acq On : 31 May 04 12:35 PM
Sample : 2500 μ g/ml DRO/MORO
Misc : std# ST040518-4 2X
Quant Time: Jun 1 12:24 19104

Vial: 2
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16420.D
 Acq On : 31 May 04 01:21 PM
 Sample : 1000 μ g/ml DRO/MORO
 Misc : std# ST040518-4 5X
 Quant Time: Jun 1 12:24 19104

Vial: 3
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.25	239816	99.09	μ g/ml
		Recovery	=	198.18%
<hr/>				
Target Compounds				
1) H TEPH	10.00	1964988	990.70	μ g/ml
2) H Motor Oil	20.00	829524	992.60	μ g/ml

CH 6/1/04

CH M.O. → 1000 ppm high pt
 6/10/04 on calibration
see previous

(f)=RT Delta > 1/2 Window

(m)=manual int.

F3F16420.D F053104.M

Tue Jun 01 12:24:49 2004

Page 1

000043

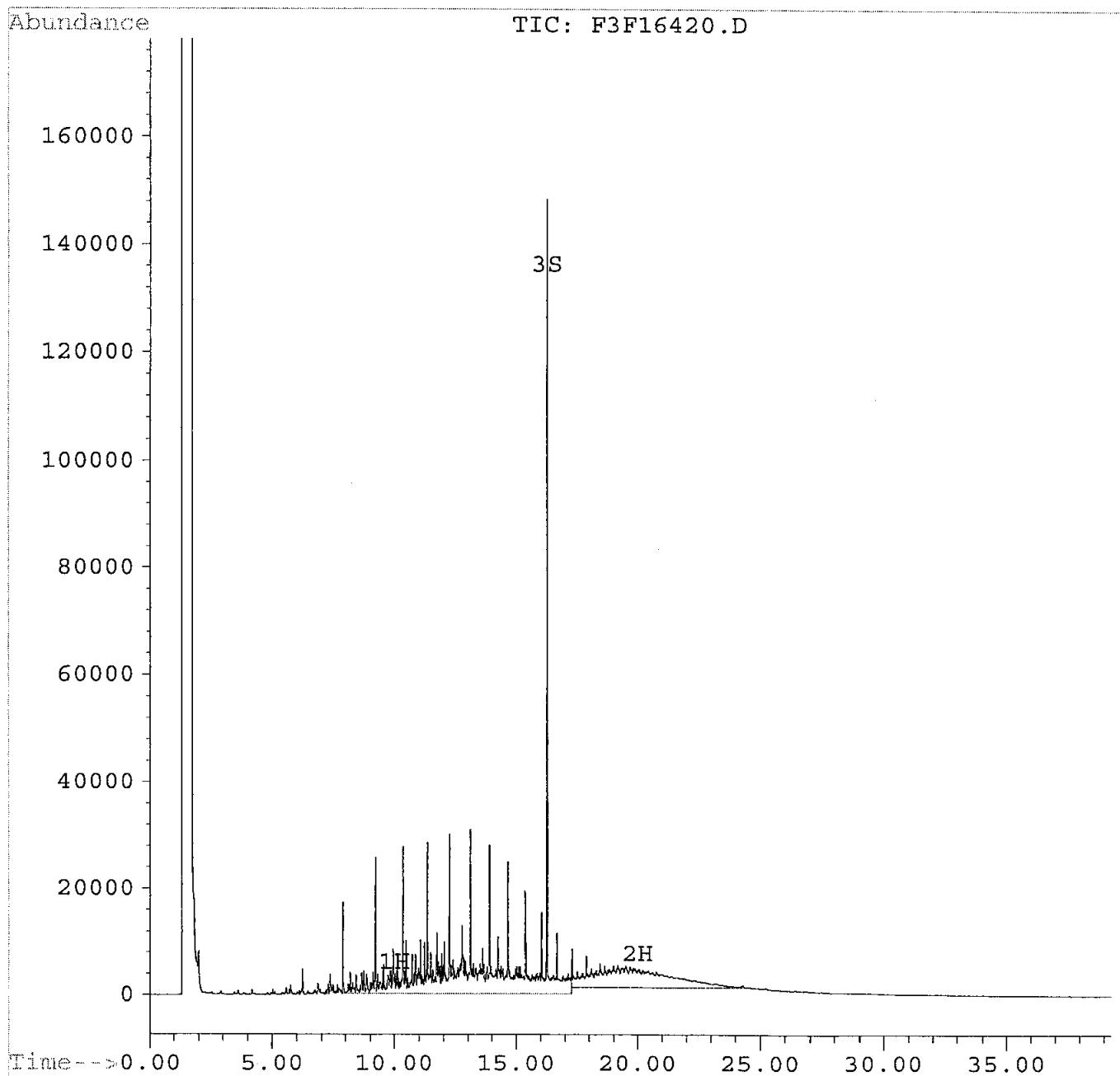
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16420.D
Acq On : 31 May 04 01:21 PM
Sample : 1000 μ g/ml DRO/MORO
Misc : std# ST040518-4 5X
Quant Time: Jun 1 12:24 19104

Vial: 3
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16421.D
 Acq On : 31 May 04 02:08 PM
 Sample : 500 μ g/ml DRO/MORO
 Misc : std# ST040518-4 10X
 Quant Time: Jun 1 12:24 19104

Vial: 4
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.24	124024	50.50	μ g/ml
		Recovery	=	101.00%
<hr/>				
Target Compounds				
1) H TEPH	10.00	1006903	504.89	μ g/ml
2) H Motor Oil	20.00	442676	509.91	μ g/ml

CH₆H₁₀O₄

(f)=RT Delta > 1/2 Window

F3F16421.D F053104.M

Tue Jun 01 12:24:54 2004

(m)=manual int.

Page 1

000051

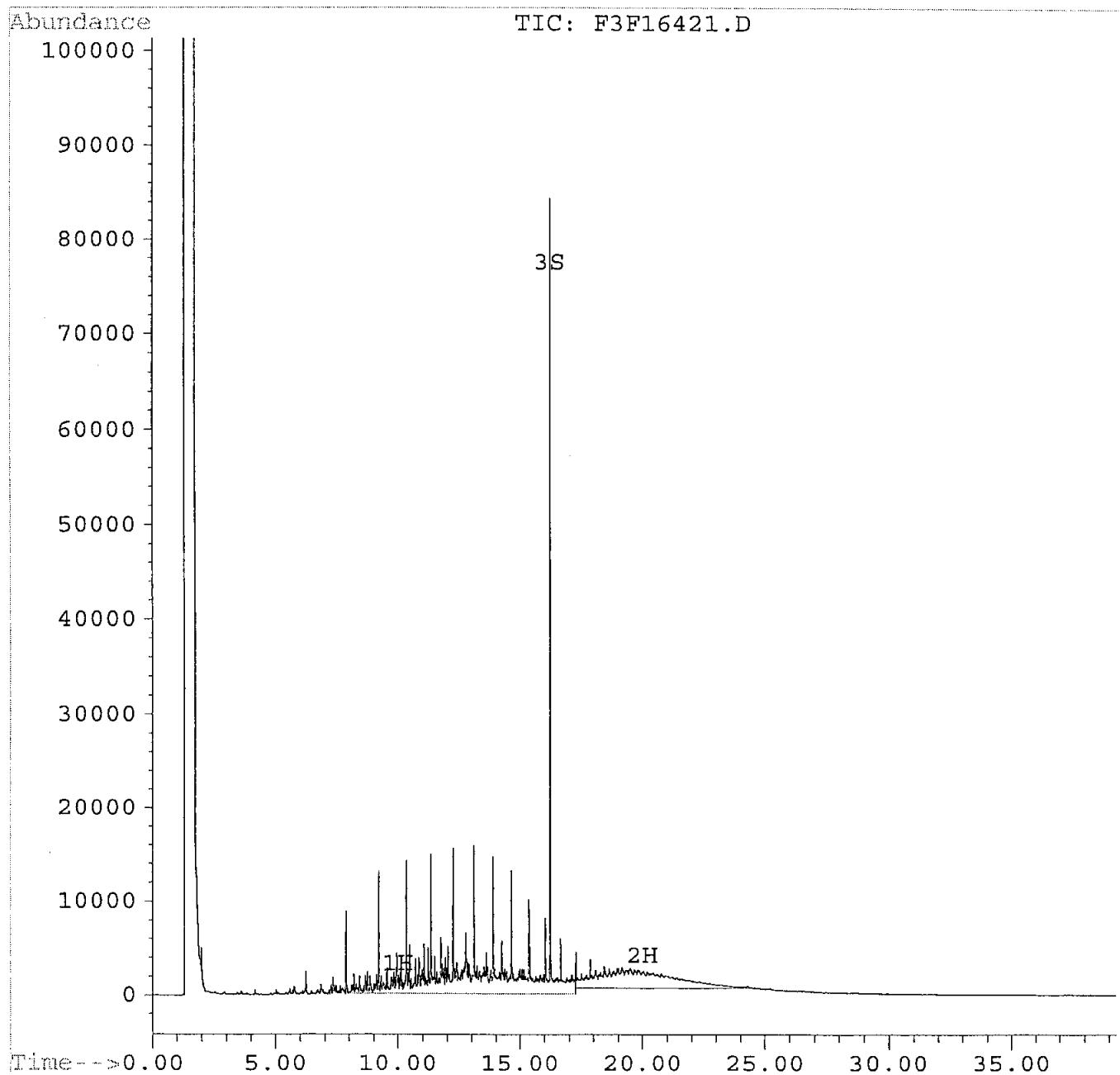
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16421.D
Acq On : 31 May 04 02:08 PM
Sample : 500 μ g/ml DRO/MORO
Misc : std# ST040518-4 10X
Quant Time: Jun 1 12:24 19104

Vial: 4
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16422.D
 Acq On : 31 May 04 02:55 PM
 Sample : 200 μ g/ml DRO/MORO
 Misc : std# ST040518-4 25X
 Quant Time: Jun 1 12:24 19104

Vial: 5
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.24	56635	22.23	μ g/ml
		Recovery	=	44.46%
<hr/>				
Target Compounds				
1) H TEPH	10.00	451384	223.21	μ g/ml
2) H Motor Oil	20.00	202213	209.88	μ g/ml

CH₆H₁₀O₄

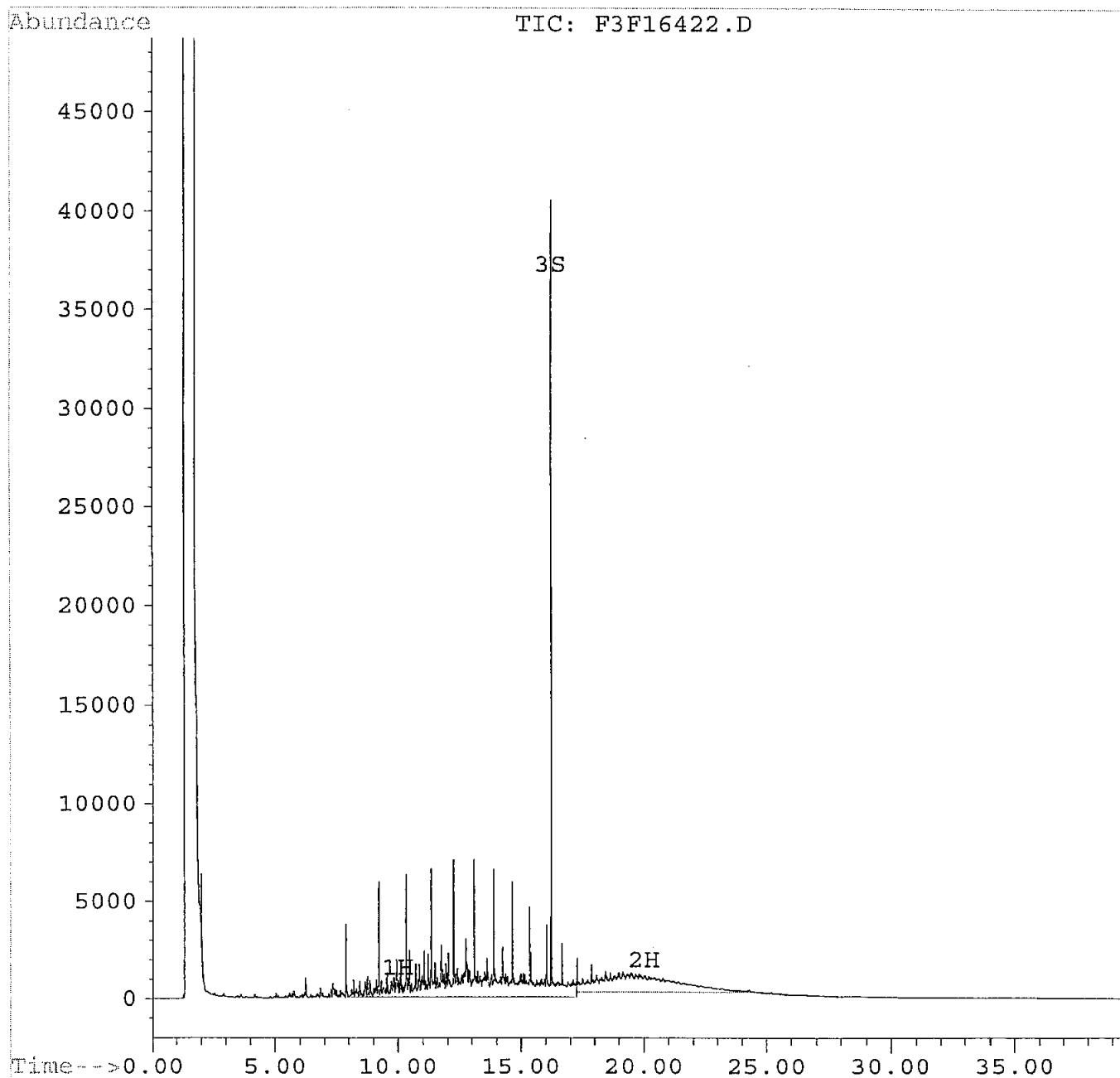
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16422.D
Acq On : 31 May 04 02:55 PM
Sample : 200 μ g/ml DRO/MORO
Misc : std# ST040518-4 25X
Quant Time: Jun 1 12:24 19104

Vial: 5
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16423.D
 Acq On : 31 May 04 03:42 PM
 Sample : 100 μ g/ml DRO/MORO
 Misc : std# ST040518-4 50X
 Quant Time: Jun 1 12:25 19104

Vial: 6
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.23	31594	11.72 μ g/ml
		Recovery	= 23.44%
<hr/>			
Target Compounds			
1) H TEPH	10.00	245334	118.73 μ g/ml
2) H Motor Oil	20.00	119073	106.14 μ g/ml

CH 6/104

(f)=RT Delta > 1/2 Window

(m)=manual int.

F3F16423.D F053104.M Tue Jun 01 12:25:03 2004

Page 1

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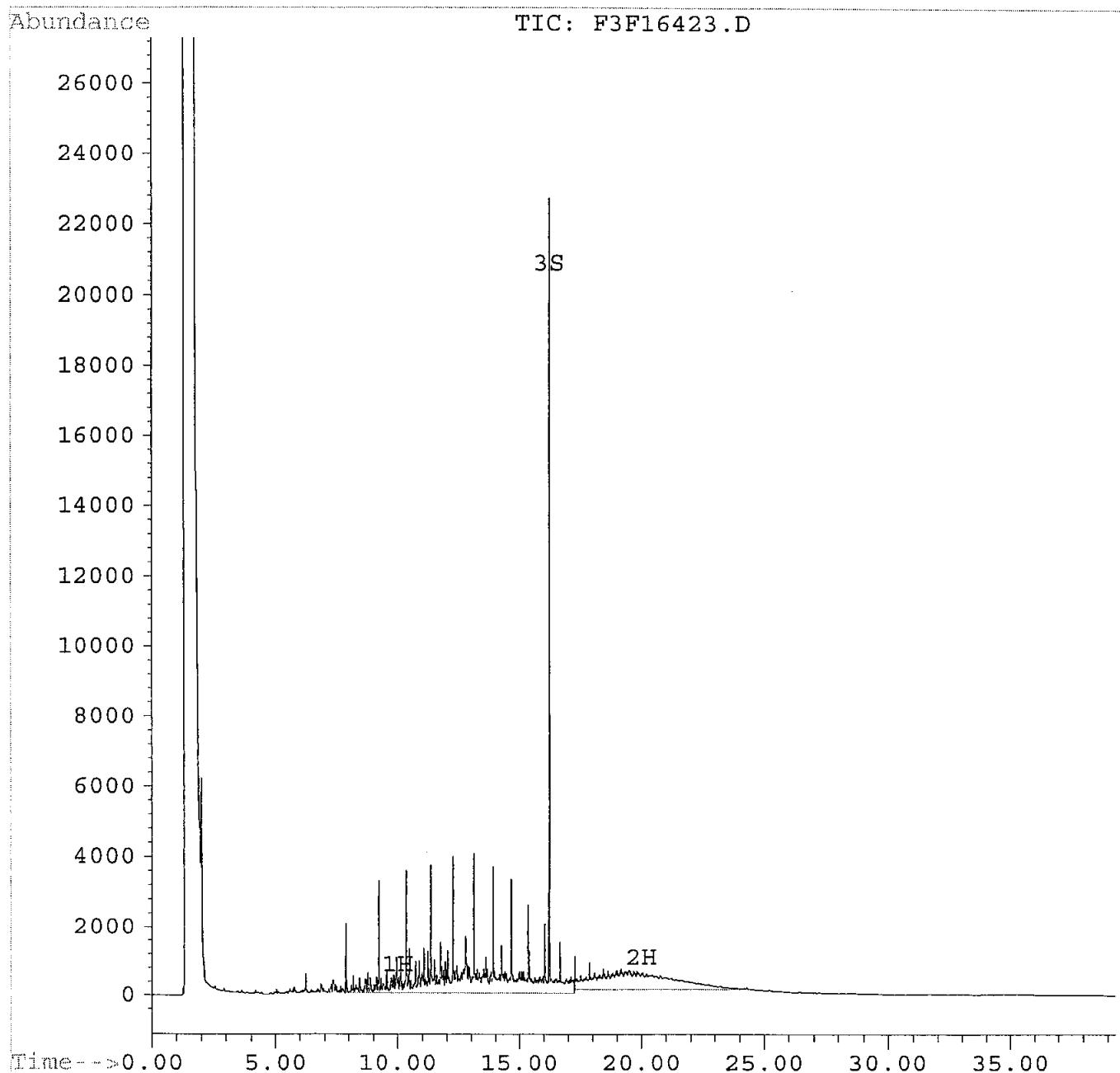
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16423.D
Acq On : 31 May 04 03:42 PM
Sample : 100 μ g/ml DRO/MORO
Misc : std# ST040518-4 50X
Quant Time: Jun 1 12:25 19104

Vial: 6
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16424.D
 Acq On : 31 May 04 04:28 PM
 Sample : 50 μ g/ml DRO/MORO
 Misc : std# ST040518-4 100X
 Quant Time: Jun 1 12:25 19104

Vial: 7
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.23	20312	6.99 μ g/ml
		Recovery	= 13.98%
<hr/>			
Target Compounds			
1) H TEPH	10.00	152886	71.86 μ g/ml
2) H Motor Oil	20.00	80175	57.60 μ g/ml

CH₆104

(f)=RT Delta > 1/2 Window

(m)=manual int.

F3F16424.D F053104.M

Tue Jun 01 12:25:07 2004

Page 1

0001157

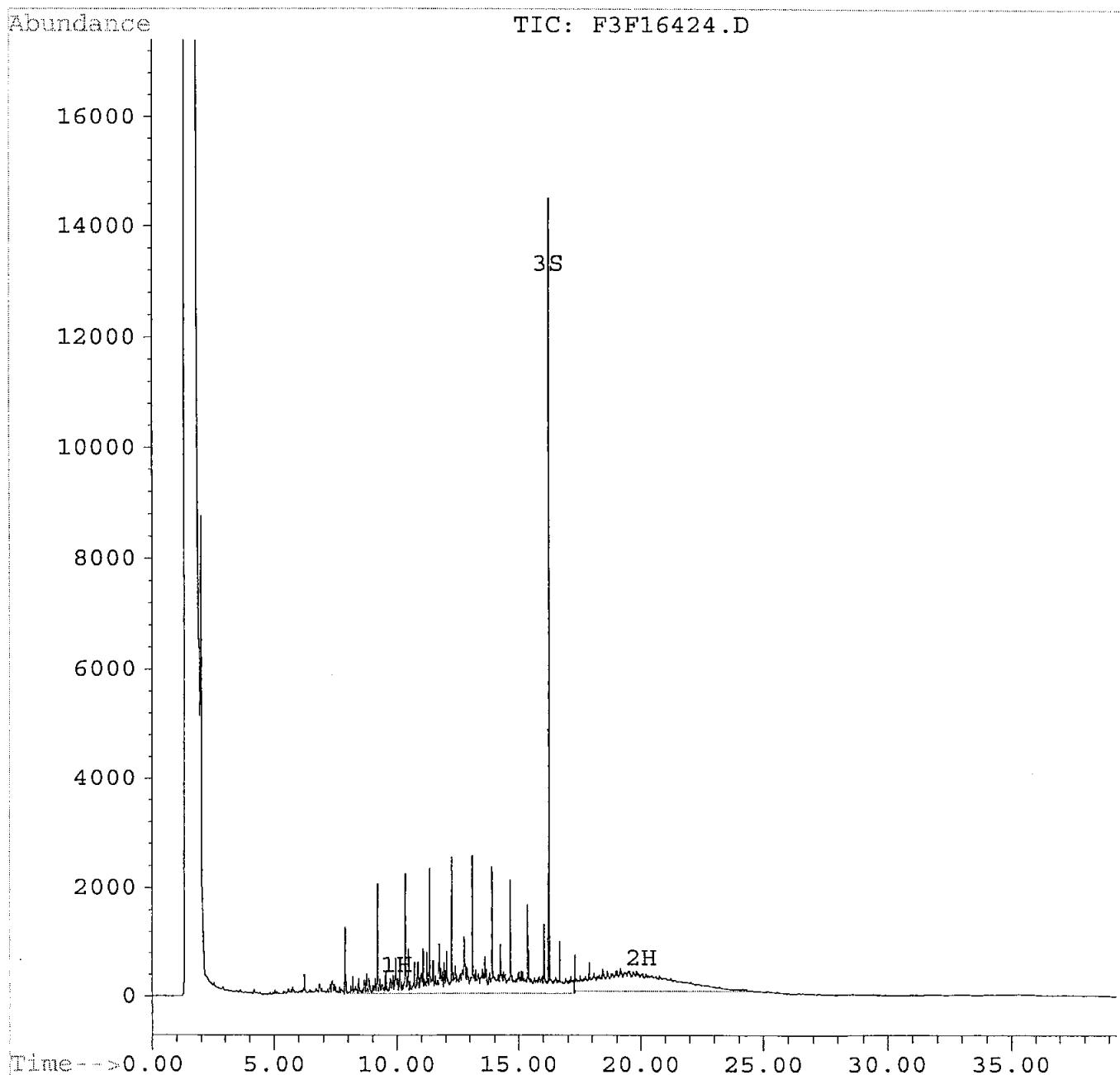
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16424.D
Acq On : 31 May 04 04:28 PM
Sample : 50 μ g/ml DRO/MORO
Misc : std# ST040518-4 100X
Quant Time: Jun 1 12:25 19104

Vial: 7
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16425.D
 Acq On : 31 May 04 05:15 PM
 Sample : 20 μ g/ml DRO/MORO
 Misc : std# ST040518-4 250X
 Quant Time: Jun 1 12:25 19104

Vial: 8
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 11:53:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.23	4924	0.53 μ g/ml
	Recovery	=	1.06%
<hr/>			
Target Compounds			
1) H TEPH	10.00	33591	11.37 μ g/ml
2) H Motor Oil	20.00	29097	N.D. μ g/ml

CH 6/1/04

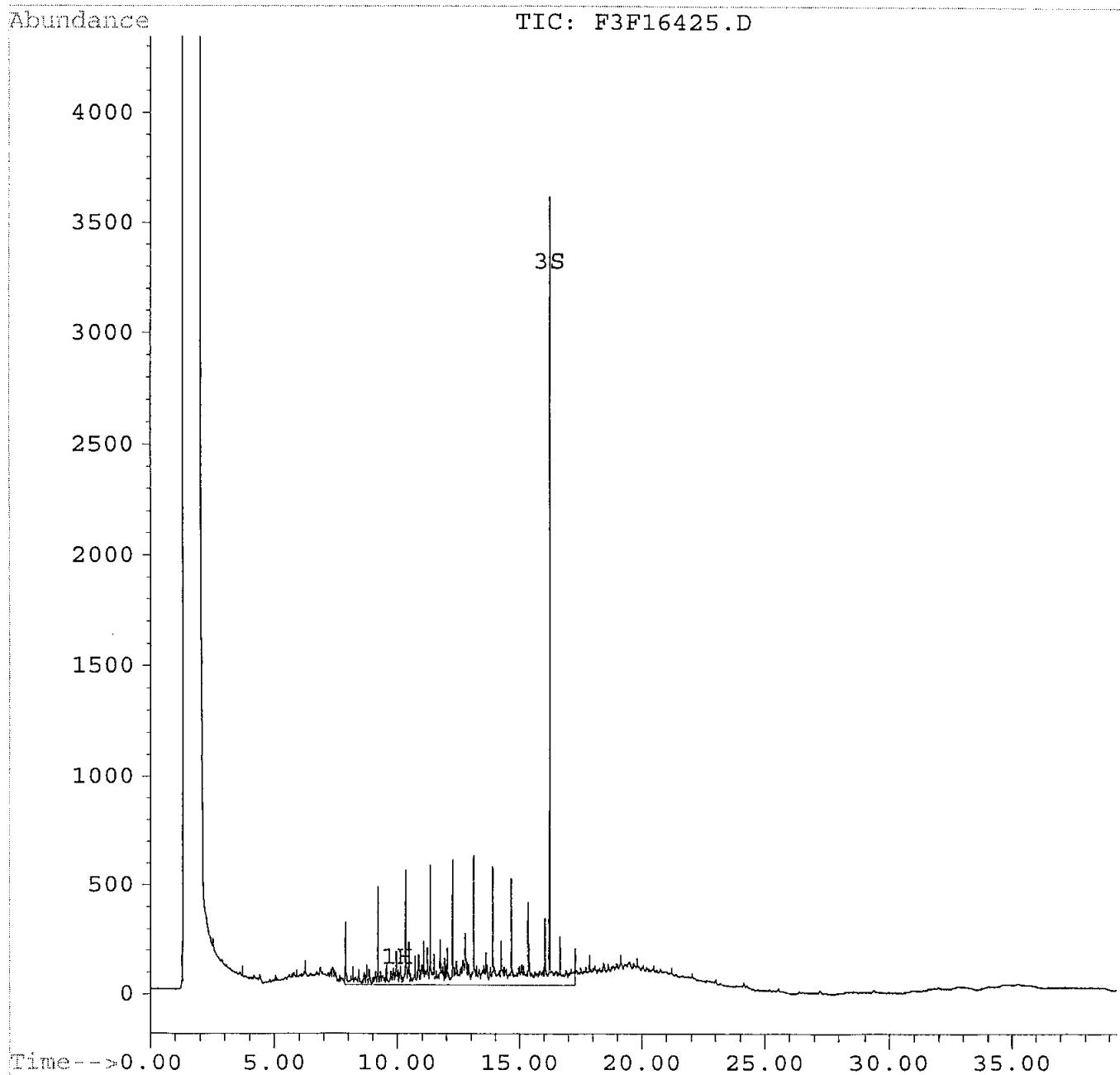
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16425.D
Acq On : 31 May 04 05:15 PM
Sample : 20 μ g/ml DRO/MORO
Misc : std# ST040518-4 250X
Quant Time: Jun 1 12:25 19104

Vial: 8
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID

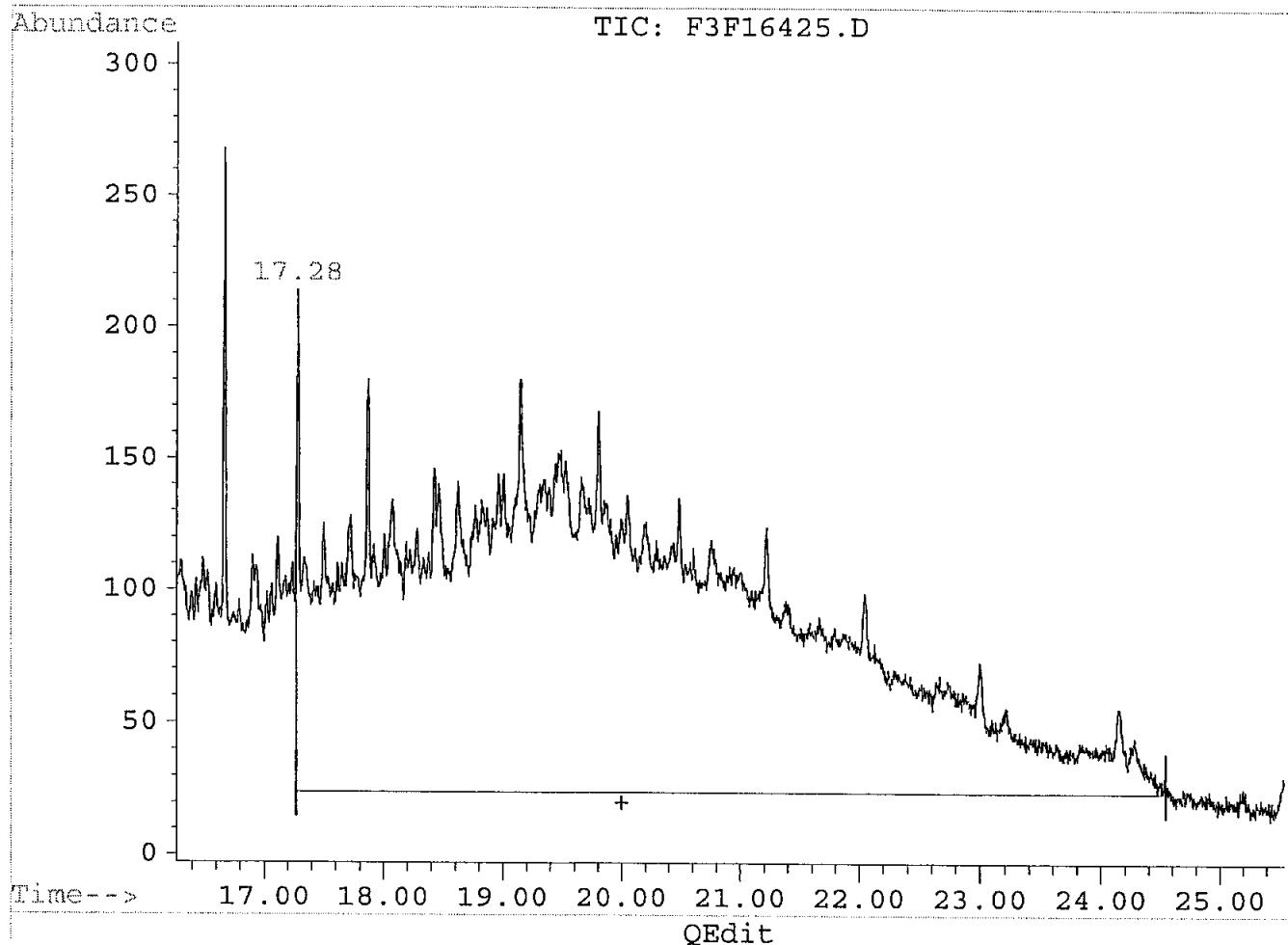


Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16425.D
Acq On : 31 May 04 05:15 PM
Sample : 20 μ g/ml DRO/MORO
Misc : std# ST040518-4 250X
Quant Time: Jun 1 12:25 19104

Vial: 8
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 11:53:10 2004
Response via : Multiple Level Calibration



(2) Motor Oil (H)
20.00min - 6.13 μ g/ml m
response 29097

CH
6/2/04

(+) = Expected Retention Time
F3F16425.D F053104.M Wed Jun 02 09:42:34 2004

000061

Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16427.D
 Acq On : 31 May 04 06:48 PM
 Sample : 600 μ g/ml DRO/MORO CCV1
 Misc : std# ST040518-4 8.33X
 Quant Time: Jun 9 12:01 19104

Vial: 10
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.25	146394	59.89 μ g/ml
		Recovery	= 119.78% CH 6/9/04
<hr/>			
Target Compounds			
1) H TEPH	10.00	1188957	597.21 μ g/ml
2) H Motor Oil	20.00	512582	562.60 μ g/ml

CH 6/9/04

o-terph $\longrightarrow \frac{59.89}{60} = 99.82\%$

TEPH $\longrightarrow \frac{597.21}{600} = 99.53\%$

M.O. $\longrightarrow \frac{562.60}{600} = 93.77\%$

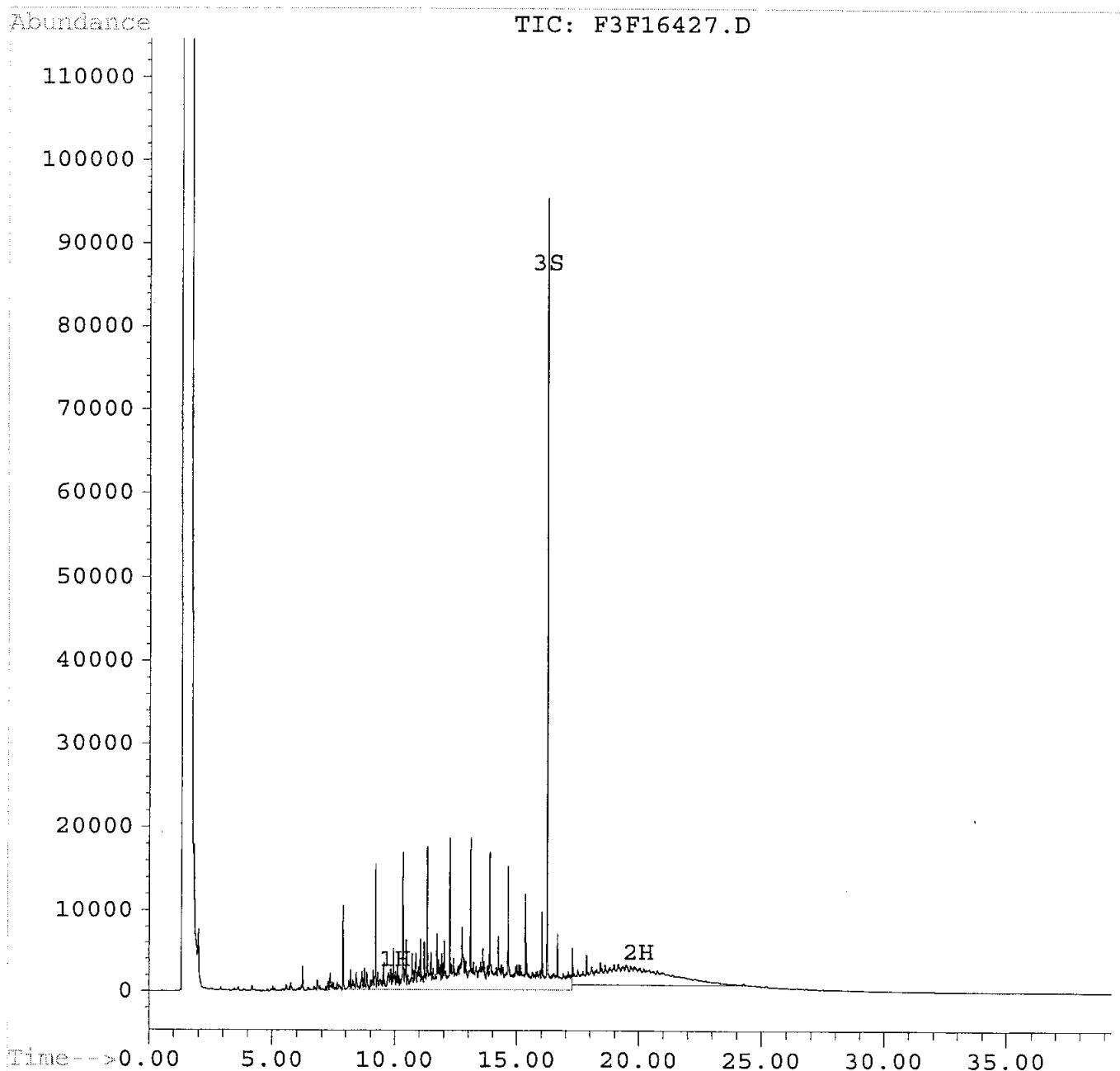
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16427.D
Acq On : 31 May 04 06:48 PM
Sample : 600 μ g/ml DRO/MORO CCV1
Misc : std# ST040518-4 8.33X
Quant Time: Jun 9 12:01 19104

Vial: 10
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16437.D
 Acq On : 01 Jun 04 02:35 AM
 Sample : 600µg/ml DRO/MORO CCV2
 Misc : std# ST040518-4 8.33X
 Quant Time: Jun 9 12:02 19104

Vial: 20
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5µm
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.24	139031	56.80 µg/ml
		Recovery	= 113.60% CH 6/9/04
<hr/>			
Target Compounds			
1) H TEPH	10.00	1120136	562.31 µg/ml
2) H Motor Oil	20.00	492276	539.84 µg/ml

CH 6/9/04

$$\text{o-terph} \longrightarrow \frac{56.80}{60} = 94.67\%$$

$$\text{TEPH} \longrightarrow \frac{562.31}{600} = 93.72\%$$

$$\text{M.O.} \longrightarrow \frac{539.84}{600} = 89.97\%$$

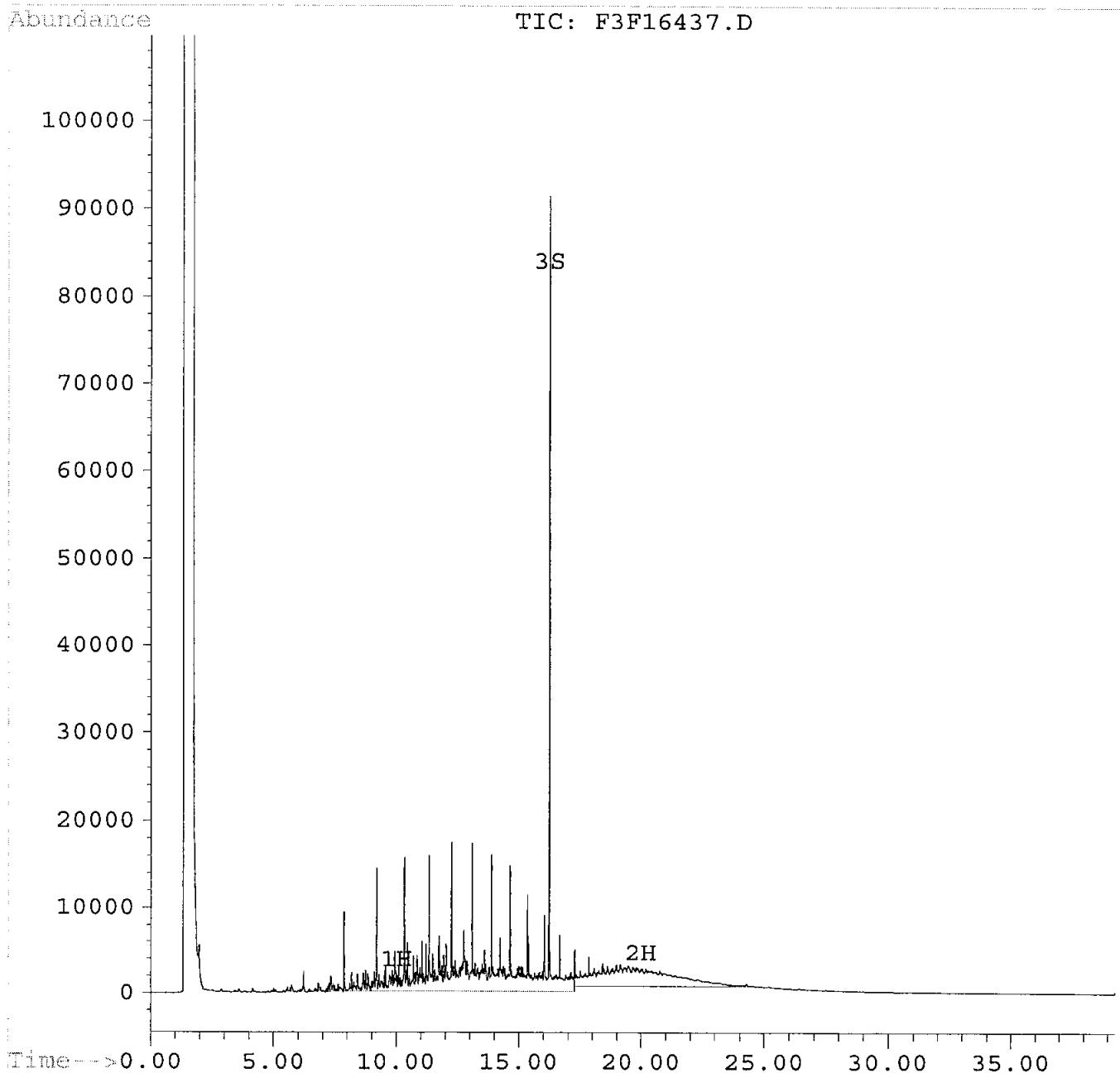
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16437.D
Acq On : 01 Jun 04 02:35 AM
Sample : 600 μ g/ml DRO/MORO CCV2
Misc : std# ST040518-4 8.33X
Quant Time: Jun 9 12:02 19104

Vial: 20
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16459.D
 Acq On : 02 Jun 04 00:08 AM
 Sample : 600 μ g/ml DRO/MORO CCV2
 Misc : std# ST040518-4 8.33X
 Quant Time: Jun 9 8:30 19104

Vial: 12
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.24	154929	63.47 μ g/ml
		Recovery	= 126.94% CH 6 9 04
<hr/>			
Target Compounds			
1) H TEPH	10.00	1261295	633.89 μ g/ml
2) H Motor Oil	20.00	576556	634.33 μ g/ml

CH 6|9|04

$$\text{O-terph} — \frac{63.47}{60} = 105.78\%$$

$$\text{TEPH} — \frac{633.89}{600} = 105.65\%$$

$$\text{M.O.} — \frac{634.33}{600} = 105.72\%$$

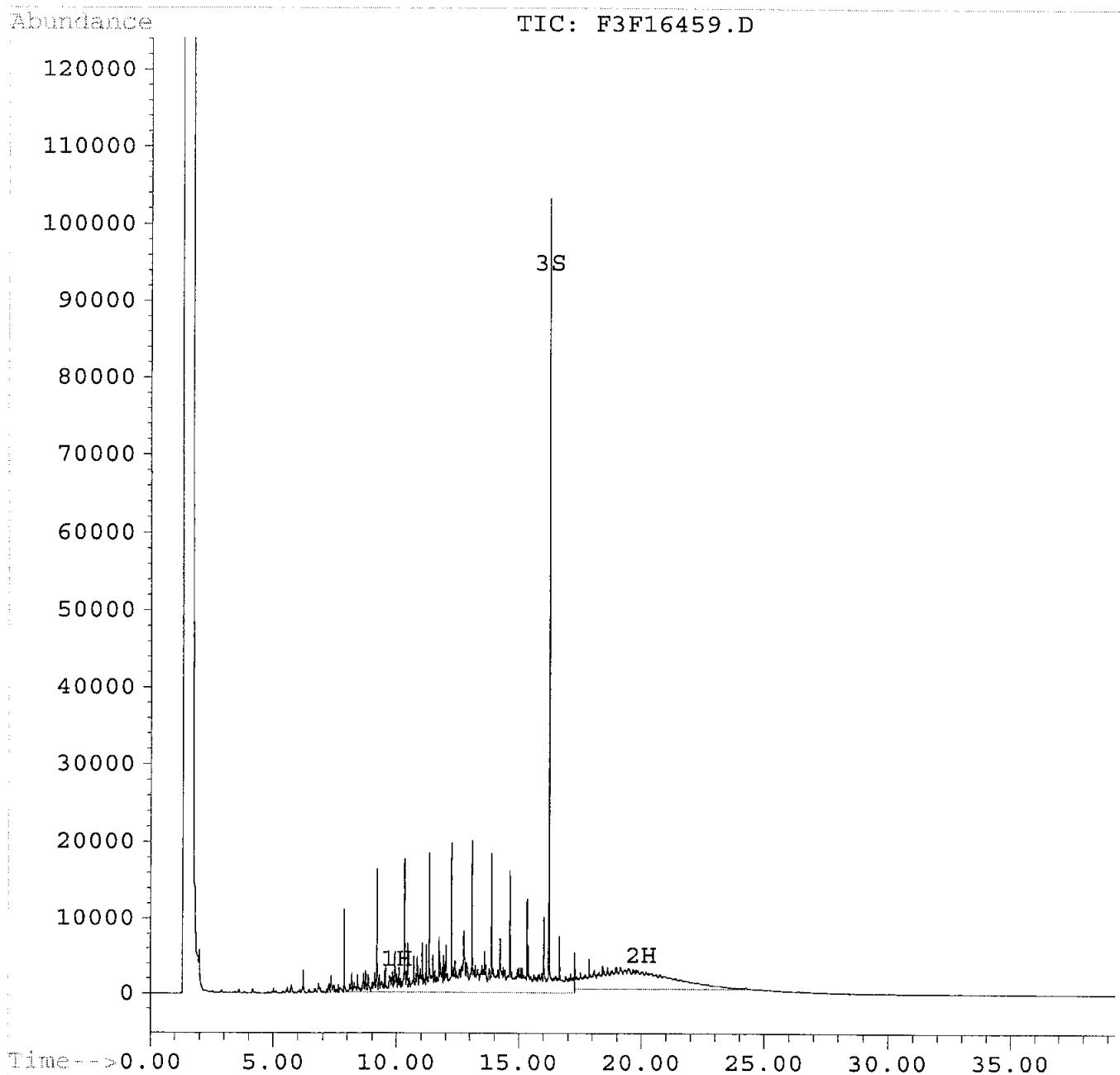
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16459.D
Acq On : 02 Jun 04 00:08 AM
Sample : 600 μ g/ml DRO/MORO CCV2
Misc : std# ST040518-4 8.33X
Quant Time: Jun 9 8:30 19104

Vial: 12
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16468.D
 Acq On : 02 Jun 04 07:07 AM
 Sample : 600 μ g/ml DRO/MORO CCV3
 Misc : std# ST040518-4 8.33X
 Quant Time: Jun 9 8:35 19104

Vial: 21
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.24	141737	57.94 μ g/ml
		Recovery	= 115.88% CH 6/9/04
<hr/>			
Target Compounds			
1) H TEPH	10.00	1142599	573.70 μ g/ml
2) H Motor Oil	20.00	506380	555.65 μ g/ml

CH 6/9/04

$$\text{o-terph} \longrightarrow \frac{57.94}{60} = 96.57\%$$

$$\text{TEPH} \longrightarrow \frac{573.70}{600} = 95.62\%$$

$$\text{M.O.} \longrightarrow \frac{555.65}{600} = 92.61\%$$

(f)=RT Delta > 1/2 Window

F3F16468.D AK053104.M

Wed Jun 09 08:35:20 2004

(m)=manual int.

Page 1

- 000068

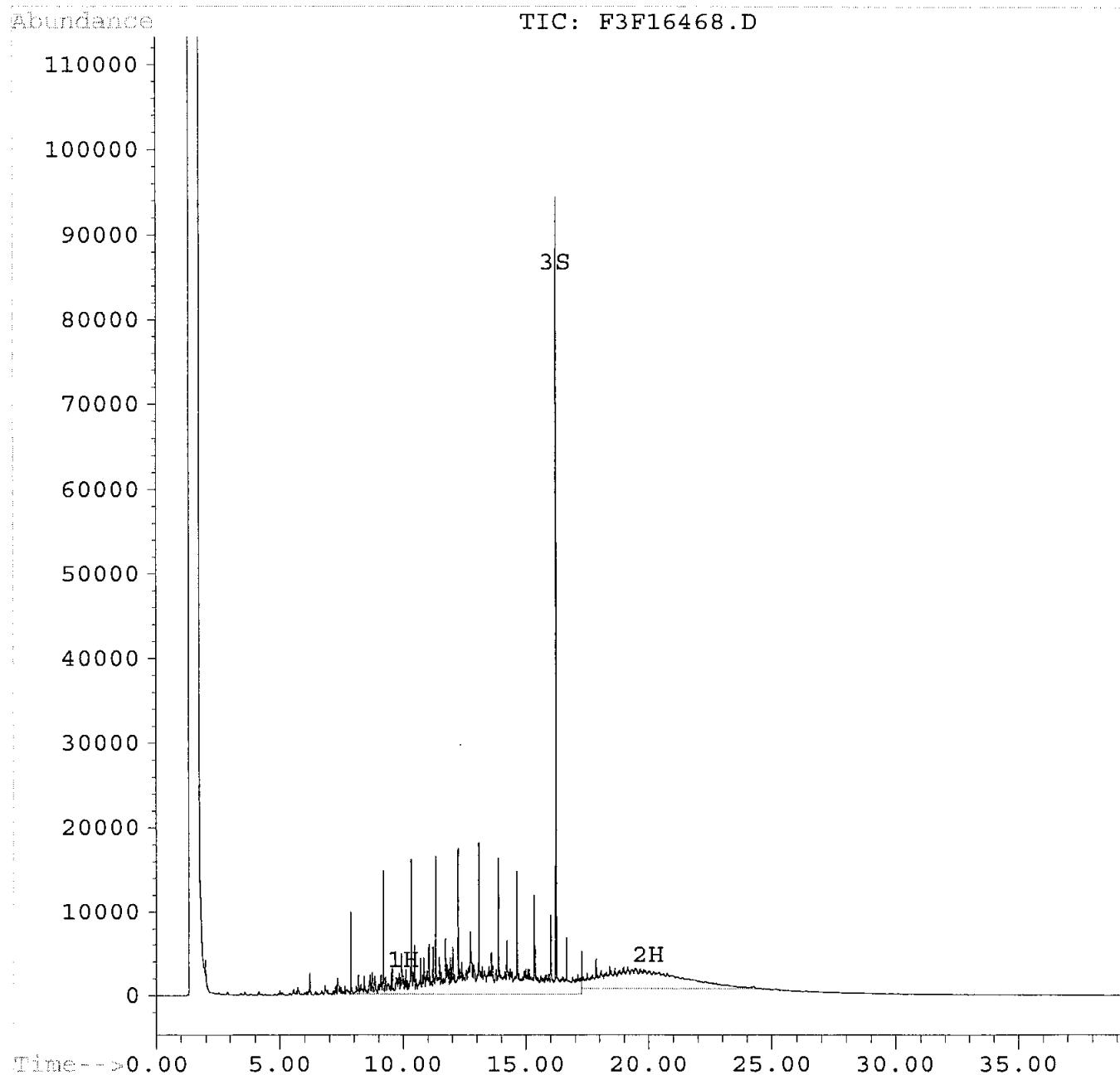
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16468.D
Acq On : 02 Jun 04 07:07 AM
Sample : 600 μ g/ml DRO/MORO CCV3
Misc : std# ST040518-4 8.33X
Quant Time: Jun 9 8:35 19104

Vial: 21
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Sample Raw Data

0000070

Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16429.D
 Acq On : 31 May 04 08:21 PM
 Sample : EX040517-11MB
 Misc :
 Quant Time: Jun 9 11:28 19104

Vial: 12
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5μm
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.24	116249	<u>47.24</u> μg/ml
	Recovery	=	94.48%
<hr/>			
Target Compounds			
1) H TEPH	10.00	13000	<u>0.93</u> μg/ml
2) H Motor Oil	20.00	16162	<u>6.05</u> μg/ml

CH 6/9/04

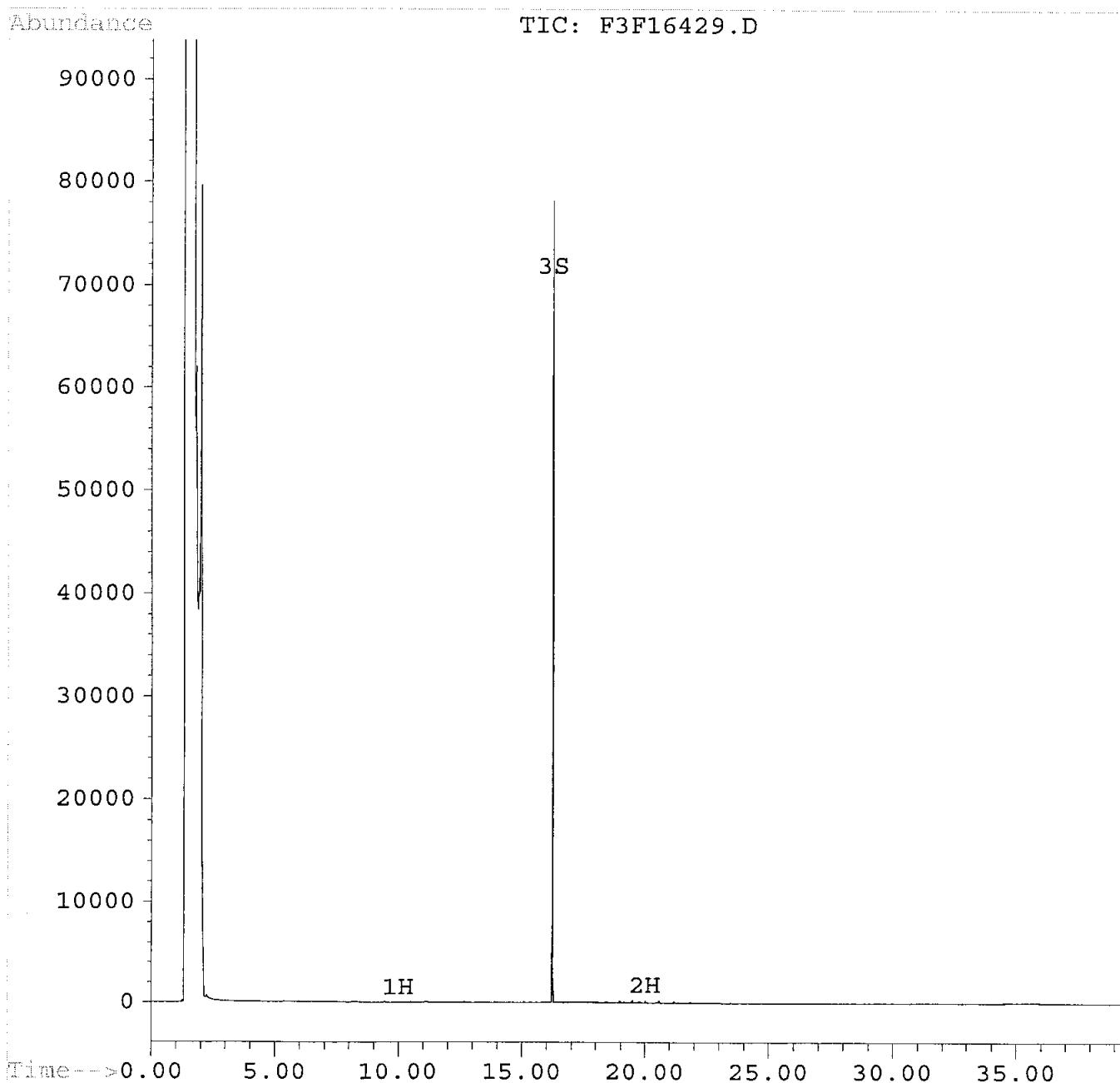
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16429.D
Acq On : 31 May 04 08:21 PM
Sample : EX040517-11MB
Misc :
Quant Time: Jun 9 11:28 19104

Vial: 12
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5μm
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16464.D
 Acq On : 02 Jun 04 04:01 AM
 Sample : 0405096-21 50X
 Misc : 20 μ l extract + 980 μ l DCM
 Quant Time: Jun 9 8:47 19104

Vial: 17
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.22	2632	N.D.	μ g/ml
		Recovery	=	0.00%
<hr/>				
Target Compounds				
1) H TEPH	10.00	1454481	731.84	μ g/ml
2) H Motor Oil	20.00	351119	381.58	μ g/ml

CH 6/9/04

- surrogate diluted out

TEPH — C₉-C₂₅ H, YM.O. — C₂₅-C₃₄ L, Y

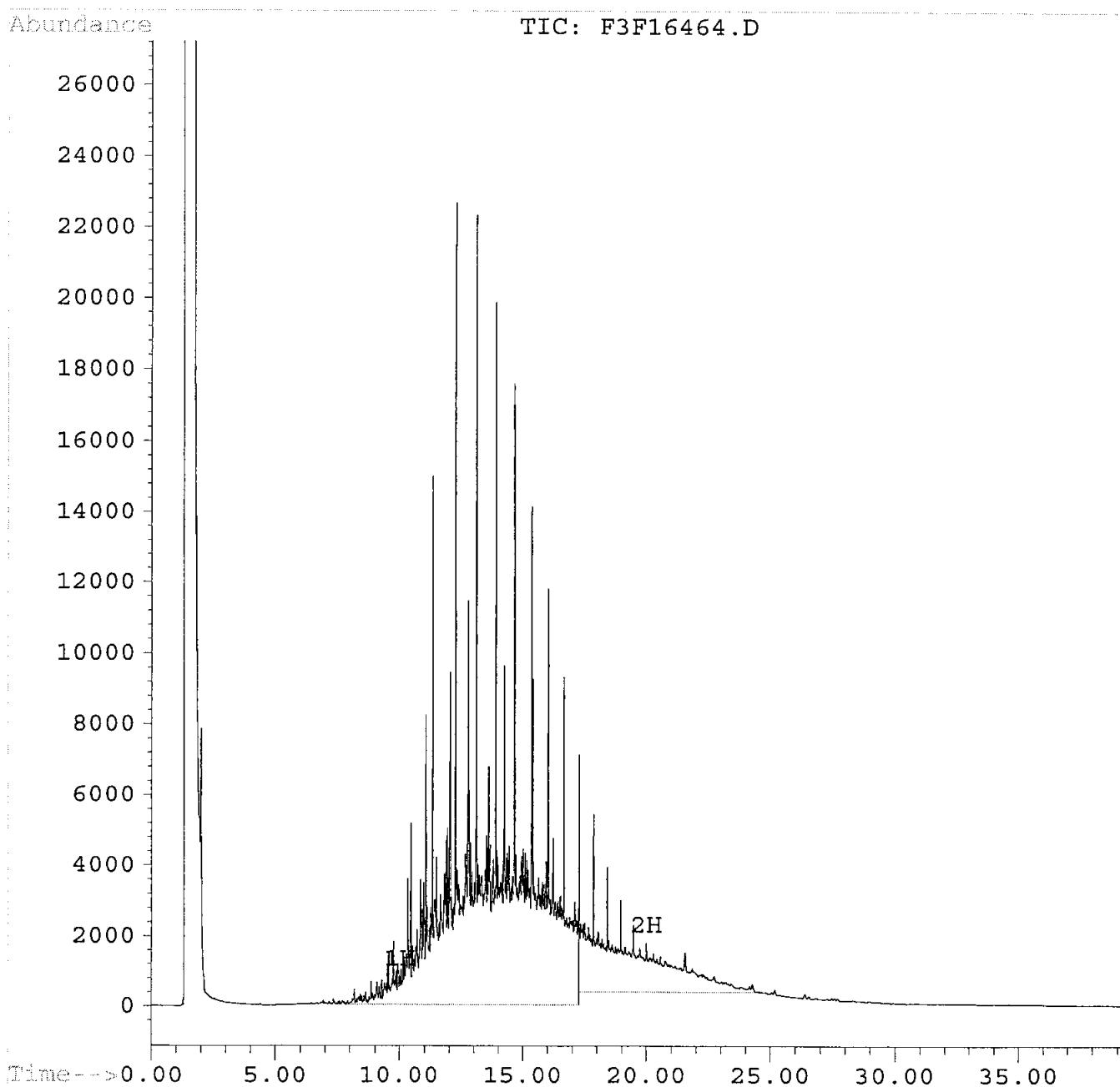
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16464.D
Acq On : 02 Jun 04 04:01 AM
Sample : 0405096-21 50X
Misc : 20 μ l extract + 980 μ l DCM
Quant Time: Jun 9 8:47 19104

Vial: 17
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16465.D
 Acq On : 02 Jun 04 04:47 AM
 Sample : 0405096-22 200X
 Misc : 5 μ l extract + 995 μ l DCM
 Quant Time: Jun 9 8:48 19104

Vial: 18
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.22	426	[N.D.] μ g/ml
	Recovery	=	0.00%
<hr/>			
Target Compounds			
1) H TEPH	10.00	85282	37.58 μ g/ml
2) H Motor Oil	20.00	818070	905.09 μ g/ml

CH₆Cl₁₀4

- surrogate diluted out

JFlag (TEPH — C₁₁—C₂₅ m, H)

M.O. — C₂₅—C₃₅ m

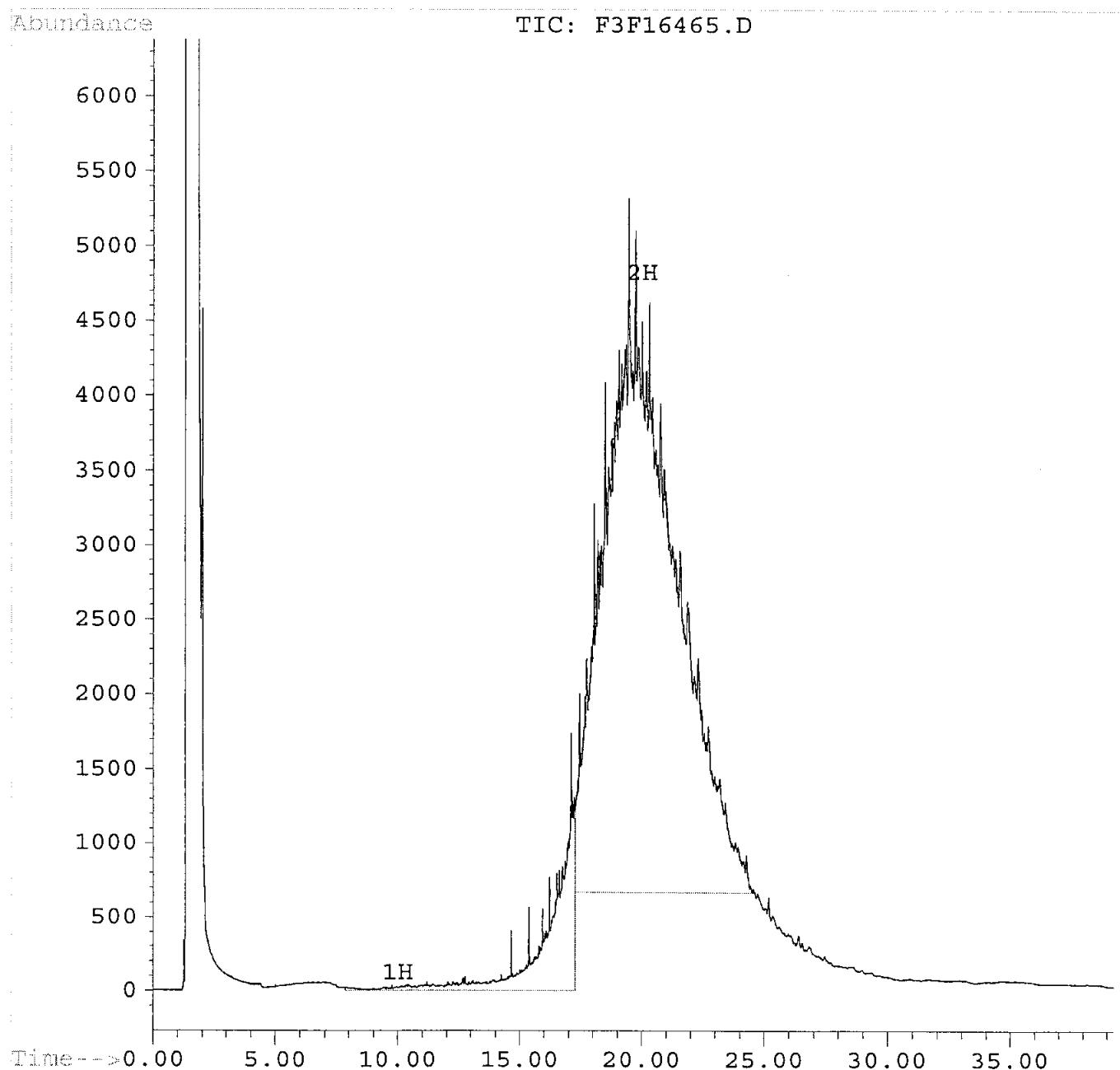
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16465.D
Acq On : 02 Jun 04 04:47 AM
Sample : 0405096-22 200X
Misc : 5 μ l extract + 995 μ l DCM
Quant Time: Jun 9 8:48 19104

Vial: 18
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16466.D
 Acq On : 02 Jun 04 05:34 AM
 Sample : 0405096-23 50X
 Misc : 20 μ l extract + 980 μ l DCM
 Quant Time: Jun 9 8:48 19104

Vial: 19
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.22	2835	N.D.	μ g/ml
	Recovery	=	0.00%	
<hr/>				
Target Compounds				
1) H TEPH	10.00	66549	28.08	μ g/ml
2) H Motor Oil	20.00	299294	323.48	μ g/ml

CH 6/9/04

— surrogate diluted out

JFlag (TEPH — C₉-C₂₅ H,Y,M)M.O. — C₂₅-(35 m,H

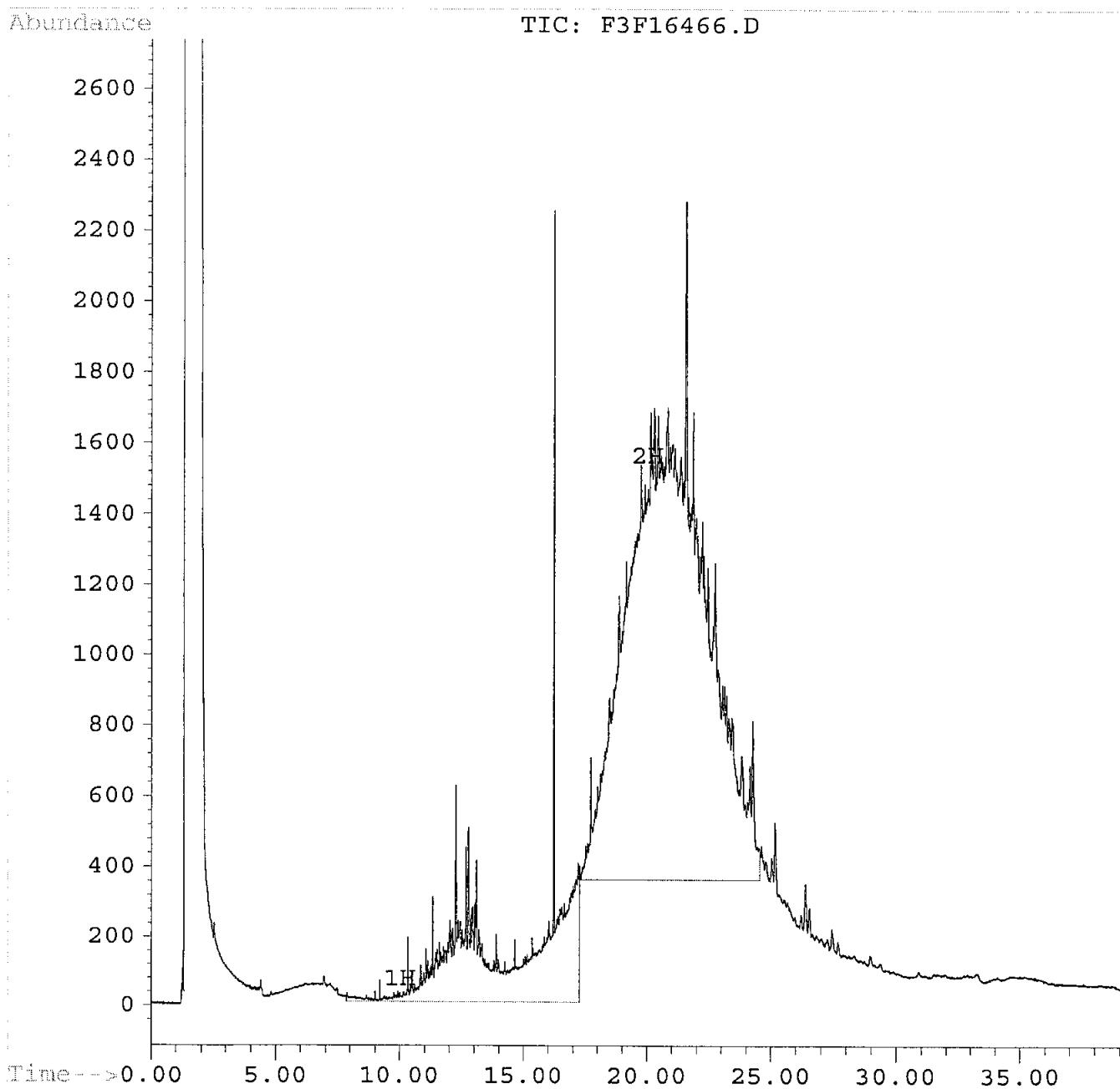
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16466.D
Acq On : 02 Jun 04 05:34 AM
Sample : 0405096-23 50X
Misc : 20 μ l extract + 980 μ l DCM
Quant Time: Jun 9 8:48 19104

Vial: 19
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16467.D
 Acq On : 02 Jun 04 06:20 AM
 Sample : 0405096-24 200X
 Misc : 5 μ l extract + 995 μ l DCM
 Quant Time: Jun 9 8:48 19104

Vial: 20
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.22	455	N.D.	μ g/ml
	Recovery	=	0.00%	
<hr/>				
Target Compounds				
1) H TEPH	10.00	89645	39.79	μ g/ml
2) H Motor Oil	20.00	813165	899.59	μ g/ml

CH 6/9/04

- surrogate diluted out

TEPH — C₁₃ - C₂₅ H₁₆

M.O. — C₂₅ - C₃₇ M

(f)=RT Delta > 1/2 Window

(m)=manual int.

F3F16467.D AK053104.M

Wed Jun 09 08:48:50 2004

Page 1

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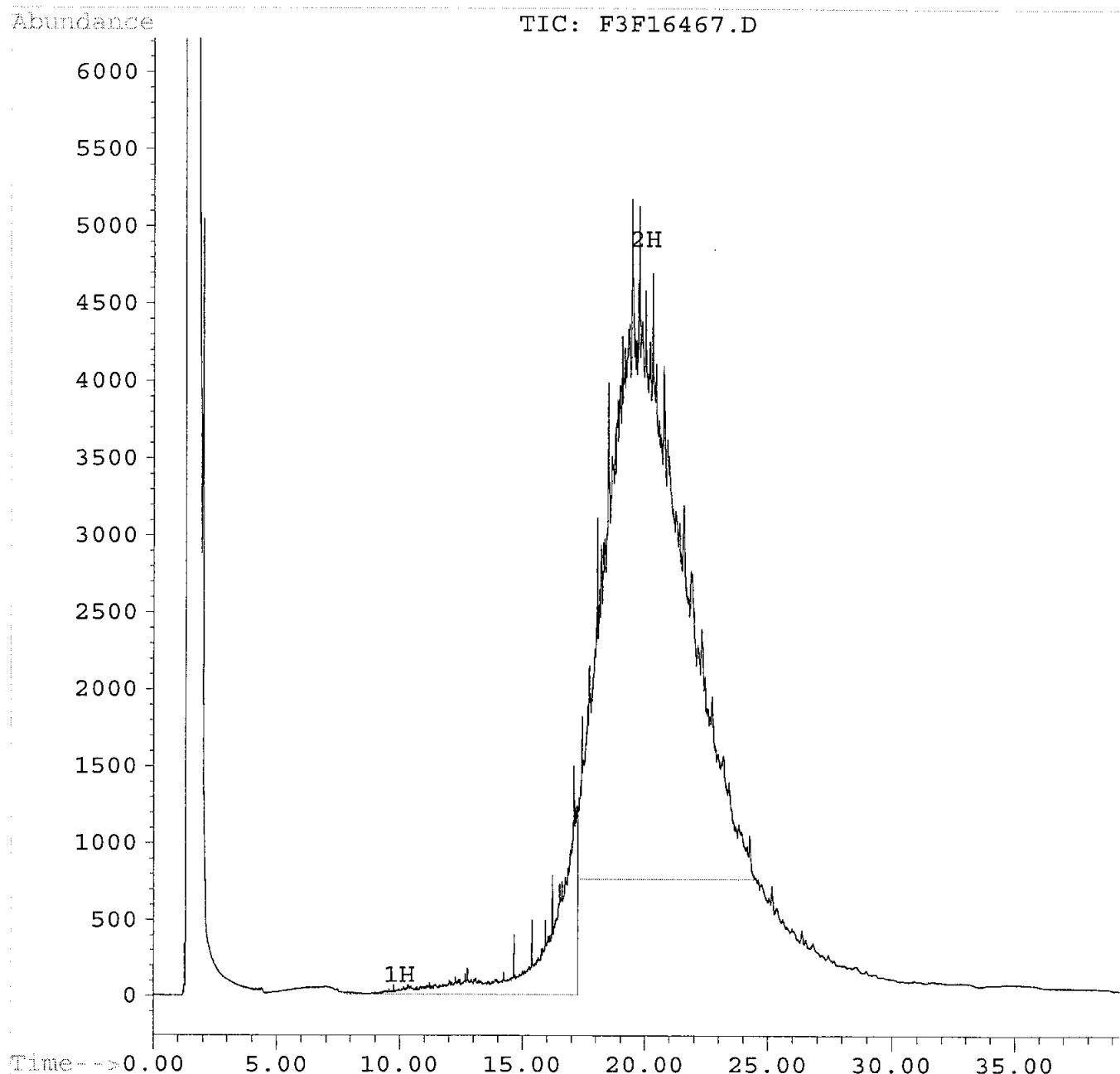
Quantitation report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16467.D
Acq On : 02 Jun 04 06:20 AM
Sample : 0405096-24 200X
Misc : 5 μ l extract + 995 μ l DCM
Quant Time: Jun 9 8:48 19104

Vial: 20
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Raw Data Quality Control Samples

000083

Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16432.D
 Acq On : 31 May 04 10:41 PM
 Sample : EX040517-11LCS
 Misc :
 Quant Time: Jun 9 11:28 19104

Vial: 15
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5μm
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.24	110148	44.68 μg/ml
	Recovery	=	89.36%
<hr/>			
Target Compounds			
1) H TEPH	10.00	319628	156.41 μg/ml
2) H Motor Oil	20.00	40680	33.54 μg/ml not spiked

CH 6/9/04

$$\text{TEPH} - \frac{156.41}{200} = 78.20\%$$

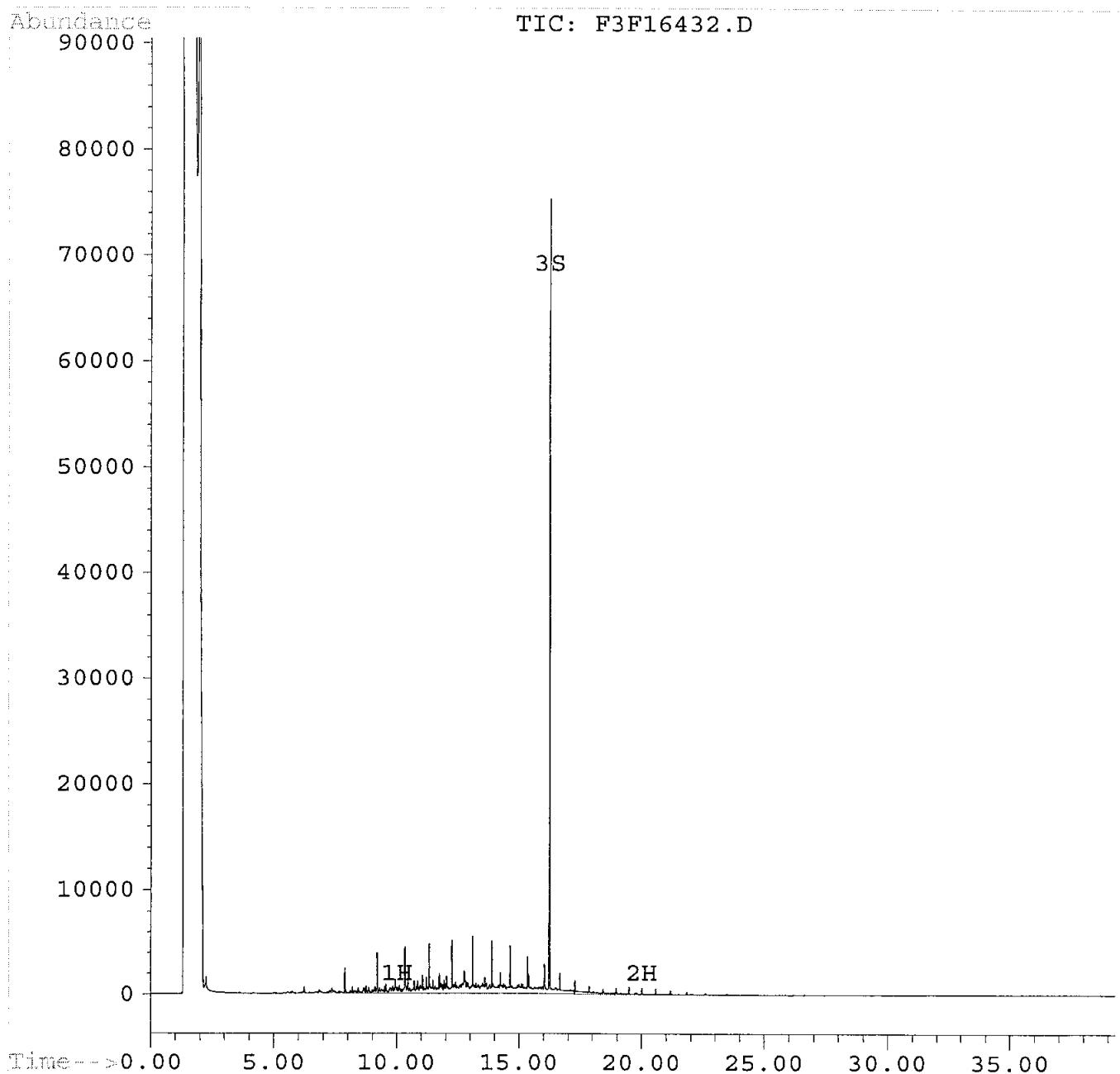
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16432.D
Acq On : 31 May 04 10:41 PM
Sample : EX040517-11LCS
Misc :
Quant Time: Jun 9 11:28 19104

Vial: 15
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16433.D
 Acq On : 31 May 04 11:28 PM
 Sample : EX040517-11LCSD
 Misc :
 Quant Time: Jun 9 11:28 19104

Vial: 16
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 08 16:01:10 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5μm
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.24	111100	45.08	μg/ml
	Recovery	=	90.16%	
<hr/>				
Target Compounds				
1) H TEPH	10.00	331275	162.31	μg/ml
2) H Motor Oil	20.00	36212	28.53	μg/ml not spiked

CH 6/9/04

$$\text{TEPH} - \frac{162.31}{200} = 81.15\%$$

(f)=RT Delta > 1/2 Window

F3F16433.D AK053104.M

Wed Jun 09 11:29:12 2004

(m)=manual int.

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000084

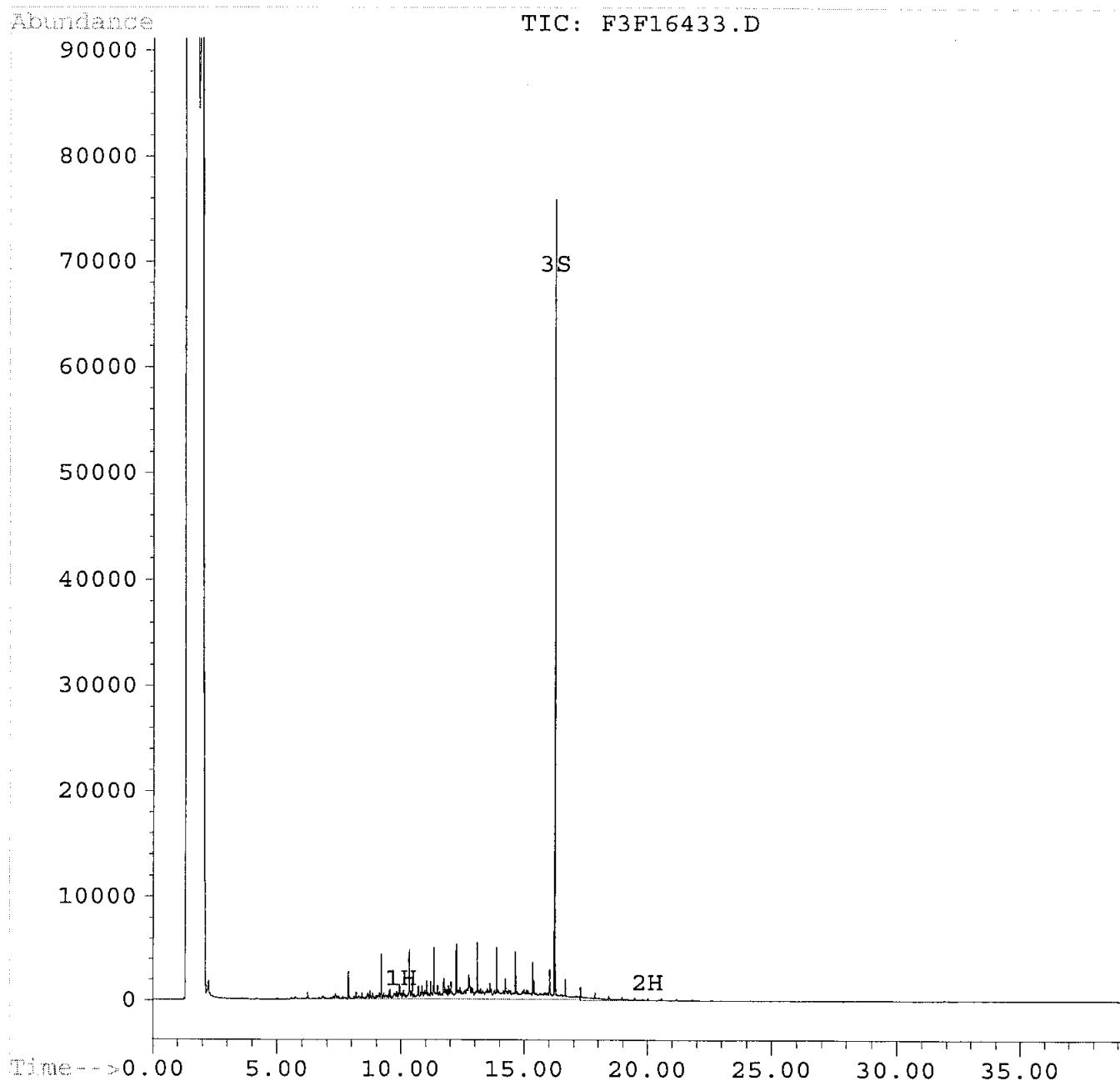
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16433.D
Acq On : 31 May 04 11:28 PM
Sample : EX040517-11LCSD
Misc :
Quant Time: Jun 9 11:28 19104

Vial: 16
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 08 16:01:10 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5μm
Signal Info : FID



Miscellaneous

2687/8

DIESEL RANGE ORGANICS (DRO) -- EXTRACTION BENCHSHEET

SAMPLE							EXTRACT		
Sample Number	Amount (g)	Surrogate (mL)	Matrix Spike (mL)	Initials Spike Witness	Extract Solvent	Solvent Volume (mL)	Final Volume (mL)	Date Vialled	Comments
SmB	20.00	1.0	N/A	100 / 33	MeOH	80.0 mL	50	5-18-04	
04050916-21	20.09								
-22	20.05								
-23	20.05								
-24	20.01								
-21ms	20.05	1.0							
-21msD	20.03								
SiCS	20.00								
SiCSD	20.00								

Form 602r9 frm (4/12/2002)

WO #s 04041511,0916 Matrix: AQ 50 Batch # E040517-1 Surrogate Code 5040503-1 M Spike Code 5040322-1 Initials CH Balance ID [REDACTED]

Reagents: MeOH 1.0 DCM 10.0 80% MeOH / 20% H₂O Prep ID/ Date N/A Hexane N/A Na₂SO₄ 5154324 Form 602r9 frm (4/12/2002)

0000987

Percent Moisture

Method SOP642

Lab Name: Paragon Analytics

Date Extracted: 05/18/2004

Date Analyzed: 05/18/2004

Analyst: Crystal Halverson

Validated By: ckh

Validation Date: 05/18/2004

Validation Time: 8:58:55 AM

Run ID	Prep Batch ID	QC Batch ID	Lab ID	QC Type	Dish Wt	Wet Wt	Dry Wt	Dry Wt-Dish Wt	Percent Moisture	Percent Solids	RPD
EX040517-12A	EX040517-12	EX040517-12-1	EX040517-12	MB	1.26	1.26	1.26	0.00	100.0	0.0	
EX040517-12A	EX040517-12	EX040517-12-1	0405096-21	SMP	1.34	10.5	10.57	9.23	12.1	87.9	
EX040517-12A	EX040517-12	EX040517-12-1	0405096-22	SMP	1.3	10.64	11.61	10.31	3.1	96.9	
EX040517-12A	EX040517-12	EX040517-12-1	0405096-23	SMP	1.29	10.57	10.31	9.02	14.7	85.3	
EX040517-12A	EX040517-12	EX040517-12-1	0405096-24	DUP	1.35	10.46	11.53	10.18	2.7	97.3	
EX040517-12A	EX040517-12	EX040517-12-1	0405096-24	SMP	1.34	11.04	12.04	10.70	3.1	96.9	

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicate
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
SMP	Field Sample	SYS	Sample Yield Spike

Comments:

DUP = Sample Duplicate

Wet Wt = Sample Wet Wt - Dish Wt

Dry Wt = Sample Dry Wt + Dish Wt

Dry Wt - Dish Wt = Sample Dry Wt - Dish Wt

All weight values shown above are expressed in grams.

Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16438.D
 Acq On : 01 Jun 04 03:21 AM
 Sample : 0405096-21 5X
 Misc : 200 μ l extract + 800 μ l dcm
 Quant Time: Jun 1 10:42 19104

Vial: 21
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 10:26:16 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.24	22009	[7.70]	μ g/ml
		Recovery	=	15.40% x 5
<hr/>				
Target Compounds				
1) H TEPH	10.00	10416656	5276.20	μ g/ml
2) H Motor Oil	20.00	2765174	3407.79	μ g/ml

- TEPH & MO outside
calibration range
rerun 50X

CH
6/1/04

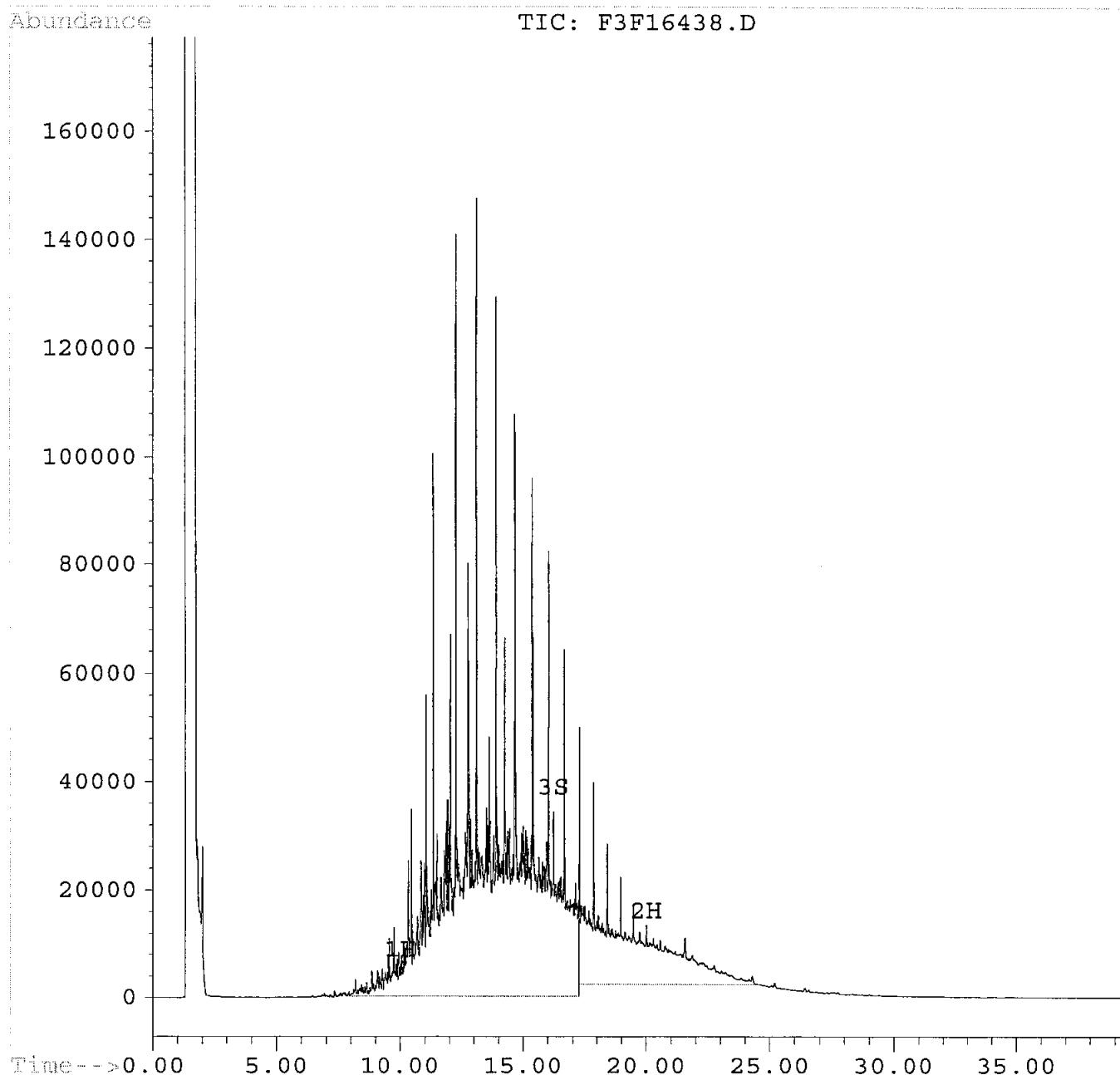
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16438.D
Acq On : 01 Jun 04 03:21 AM
Sample : 0405096-21 5X
Misc : 200 μ l extract + 800 μ l dcm
Quant Time: Jun 1 10:42 19104

Vial: 21
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 10:26:16 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16439.D
 Acq On : 01 Jun 04 04:08 AM
 Sample : 0405096-21MS 5X
 Misc : 200 μ l extract + 800 μ l dcm
 Quant Time: Jun 1 10:42 19104

Vial: 22
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 10:26:16 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.24	19447	6.62	μ g/ml
		Recovery	=	13.24%*5
<hr/>				
Target Compounds				
1) H TEPH	10.00	11441771	5796.00	μ g/ml
2) H Motor Oil	20.00	3010526	3713.92	μ g/ml

CH 6/1/04

(f)=RT Delta > 1/2 Window

(m)=manual int.

F3F16439.D F053104.M Tue Jun 01 10:42:56 2004

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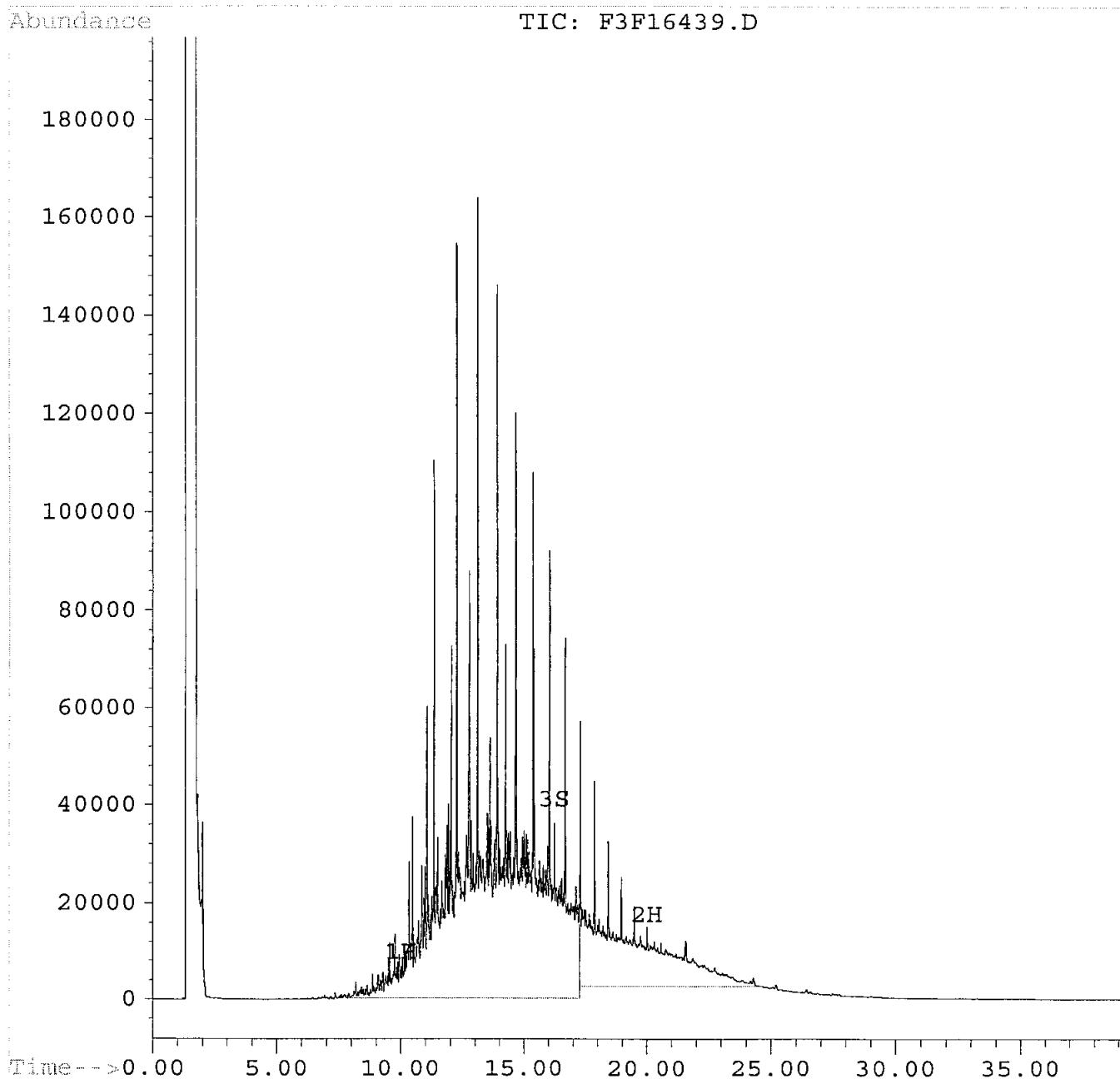
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16439.D
Acq On : 01 Jun 04 04:08 AM
Sample : 0405096-21MS 5X
Misc : 200 μ l extract + 800 μ l dcm
Quant Time: Jun 1 10:42 19104

Vial: 22
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 10:26:16 2004
Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16440.D
Acq On : 01 Jun 04 04:55 AM
Sample : 0405096-21MSD 5X
Misc : 200 μ l extract + 800 μ l dcm
Quant Time: Jun 1 10:42 19104

Vial: 23
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 10:26:16 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.24	22261	7.80	μ g/ml
		Recovery	=	15.60% \times 5
<hr/>				
Target Compounds				
1) H TEPH	10.00	9413393	4767.49	μ g/ml
2) H Motor Oil	20.00	2381982	2929.66	μ g/ml

CH 6/1/04

(f)=RT Delta > 1/2 Window

(m)=manual int.

F3F16440.D F053104.M

Tue Jun 01 10:43:00 2004

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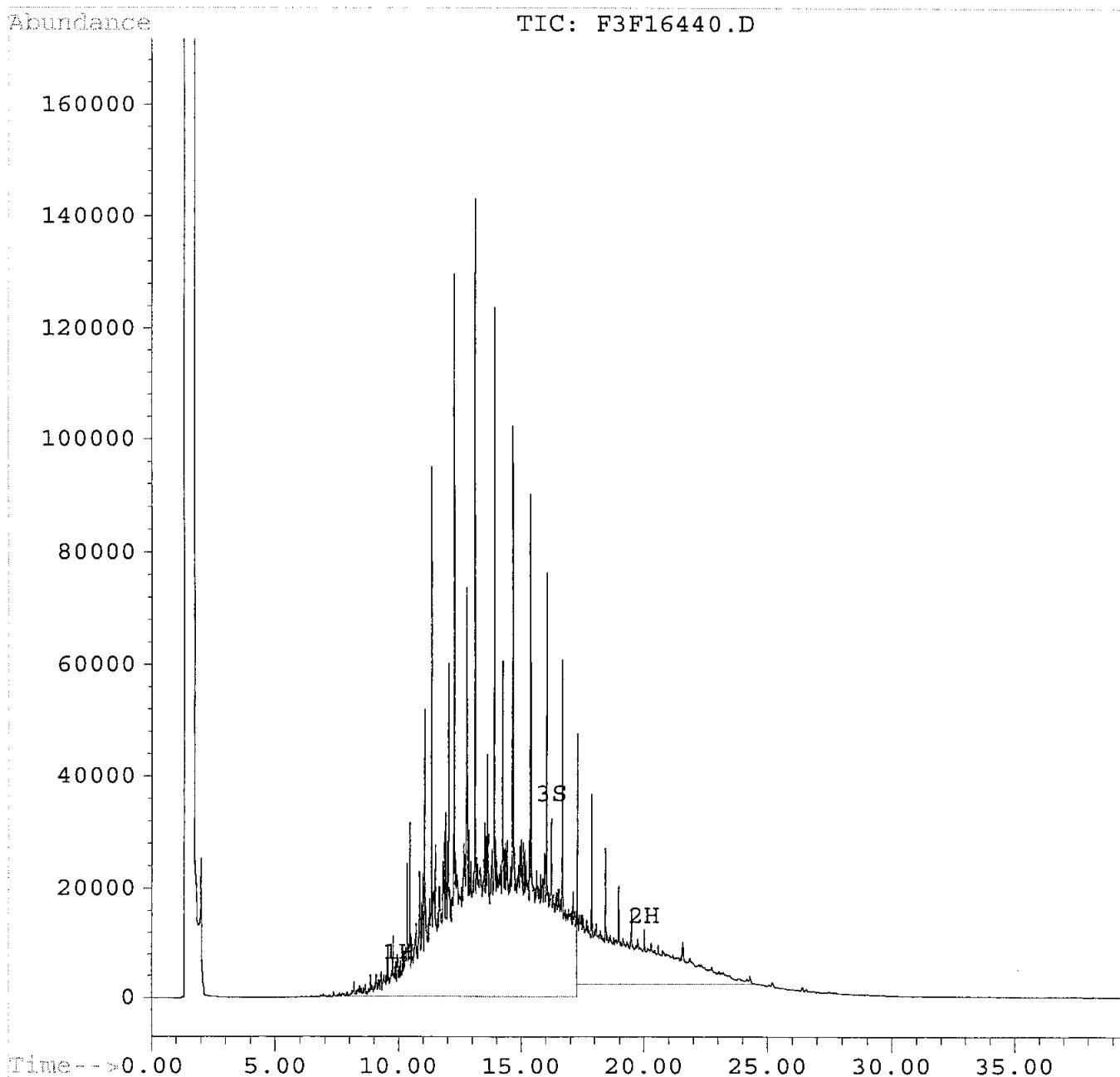
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16440.D
Acq On : 01 Jun 04 04:55 AM
Sample : 0405096-21MSD 5X
Misc : 200 μ l extract + 800 μ l dcm
Quant Time: Jun 1 10:42 19104

Vial: 23
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 10:26:16 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16441.D
 Acq On : 01 Jun 04 05:41 AM
 Sample : 0405096-22 5X
 Misc : 200 μ l extract + 800 μ l dcm
 Quant Time: Jun 1 10:43 19104

Vial: 24
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 10:26:16 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.23	19728	6.74	μ g/ml
		Recovery	=	13.48% x5
<hr/>				
Target Compounds				
1) H TEPH	10.00	3406237	1721.50	μ g/ml
2) H Motor Oil	20.00	17596846	21913.87	μ g/ml

CH 6/1/04

M.O. - outside calibration
 range rerun 200X

(f)=RT Delta > 1/2 Window

F3F16441.D F053104.M

Tue Jun 01 10:43:04 2004

(m)=manual int.

Page 1

0001025

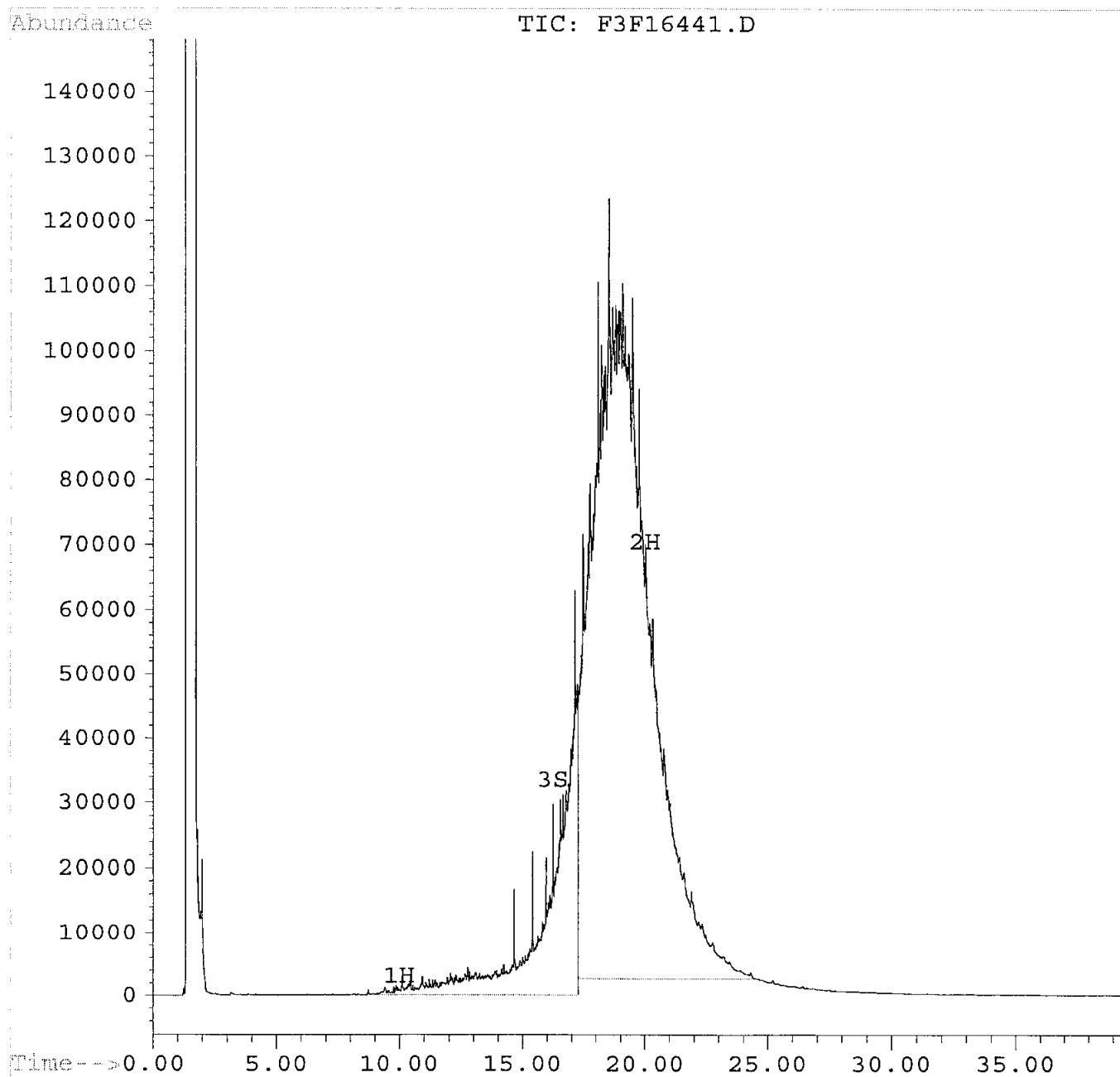
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16441.D
Acq On : 01 Jun 04 05:41 AM
Sample : 0405096-22 5X
Misc : 200 μ L extract + 800 μ L dcm
Quant Time: Jun 1 10:43 19104

Vial: 24
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 10:26:16 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16442.D
 Acq On : 01 Jun 04 06:28 AM
 Sample : 0405096-23 5X
 Misc : 200 μ l extract + 800 μ l dcm
 Quant Time: Jun 1 10:43 19104

Vial: 25
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 10:26:16 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.23	22046	7.71 μ g/ml
		Recovery	= 15.42% \times 5
<hr/>			
Target Compounds			
1) H TEPH	10.00	561276	278.94 μ g/ml
2) H Motor Oil	20.00	2372401	2917.71 μ g/ml

CH 4/1/04

M.O. outside ext calibration
range rerun 50X

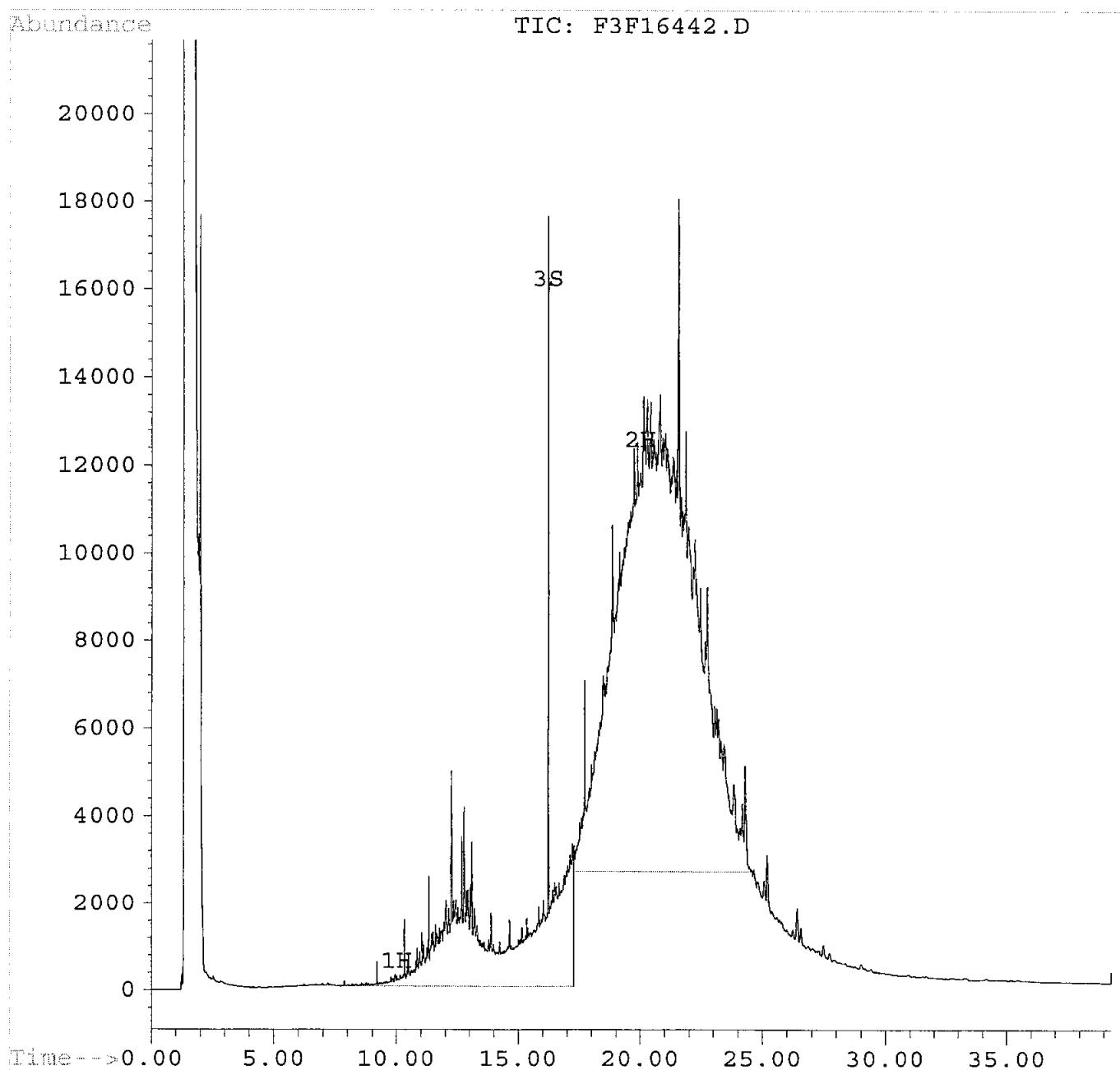
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16442.D
Acq On : 01 Jun 04 06:28 AM
Sample : 0405096-23 5X
Misc : 200 μ l extract + 800 μ l dcm
Quant Time: Jun 1 10:43 19104

Vial: 25
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 10:26:16 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16443.D
 Acq On : 01 Jun 04 07:14 AM
 Sample : 0405096-24 5X
 Misc : 200 μ l extract + 800 μ l dcm
 Quant Time: Jun 1 10:43 19104

Vial: 61
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
 Title : 8015Bmod, CALuft
 Last Update : Tue Jun 01 10:26:16 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.23	20457	7.05	μ g/ml
		Recovery	=	14.10%
<hr/>				
Target Compounds				
1) H TEPH	10.00	3590590	1814.98	μ g/ml
2) H Motor Oil	20.00	17066048	21251.57	μ g/ml

CH 6/1/04
 M.O. high rerun 2004

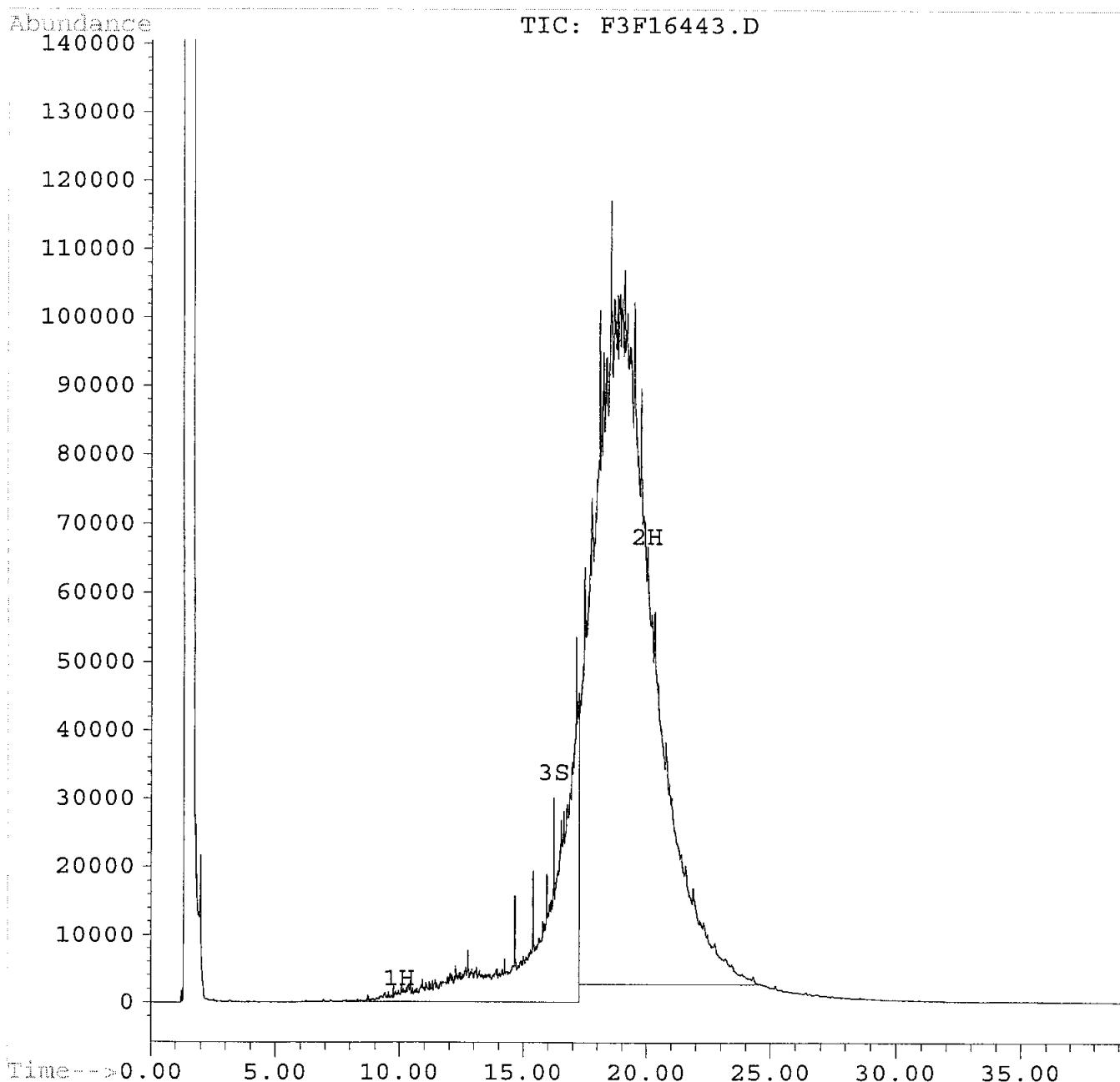
Quantitation Report

Data File : C:\HPCHEM\5\DATA\05312004\F3F16443.D
Acq On : 01 Jun 04 07:14 AM
Sample : 0405096-24 5X
Misc : 200 μ L extract + 800 μ L dcm
Quant Time: Jun 1 10:43 19104

Vial: 61
Operator: HULTS Fuels
Inst : FUELS3
Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\F053104.M
Title : 8015Bmod, CALuft
Last Update : Tue Jun 01 10:26:16 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16464.D
 Acq On : 02 Jun 04 04:01 AM
 Sample : 0405096-21 50X
 Misc : 20 μ l extract + 980 μ l DCM
 Quant Time: Jun 9 8:56 19104

Vial: 17
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
 Title : 8015Bmod, CALuft
 Last Update : Wed Jun 09 08:54:39 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.22	2632	[N.D.]	μ g/ml
		Recovery	=	0.00%
<hr/>				
Target Compounds				
1) H TEPH C ₁₀ -C ₂₅	10.00	1696123	854.37	μ g/ml
2) H Motor oil C ₂₅ -C ₃₆	20.00	305566	330.51	μ g/ml

CH 6/10/04

CH 6/10/04

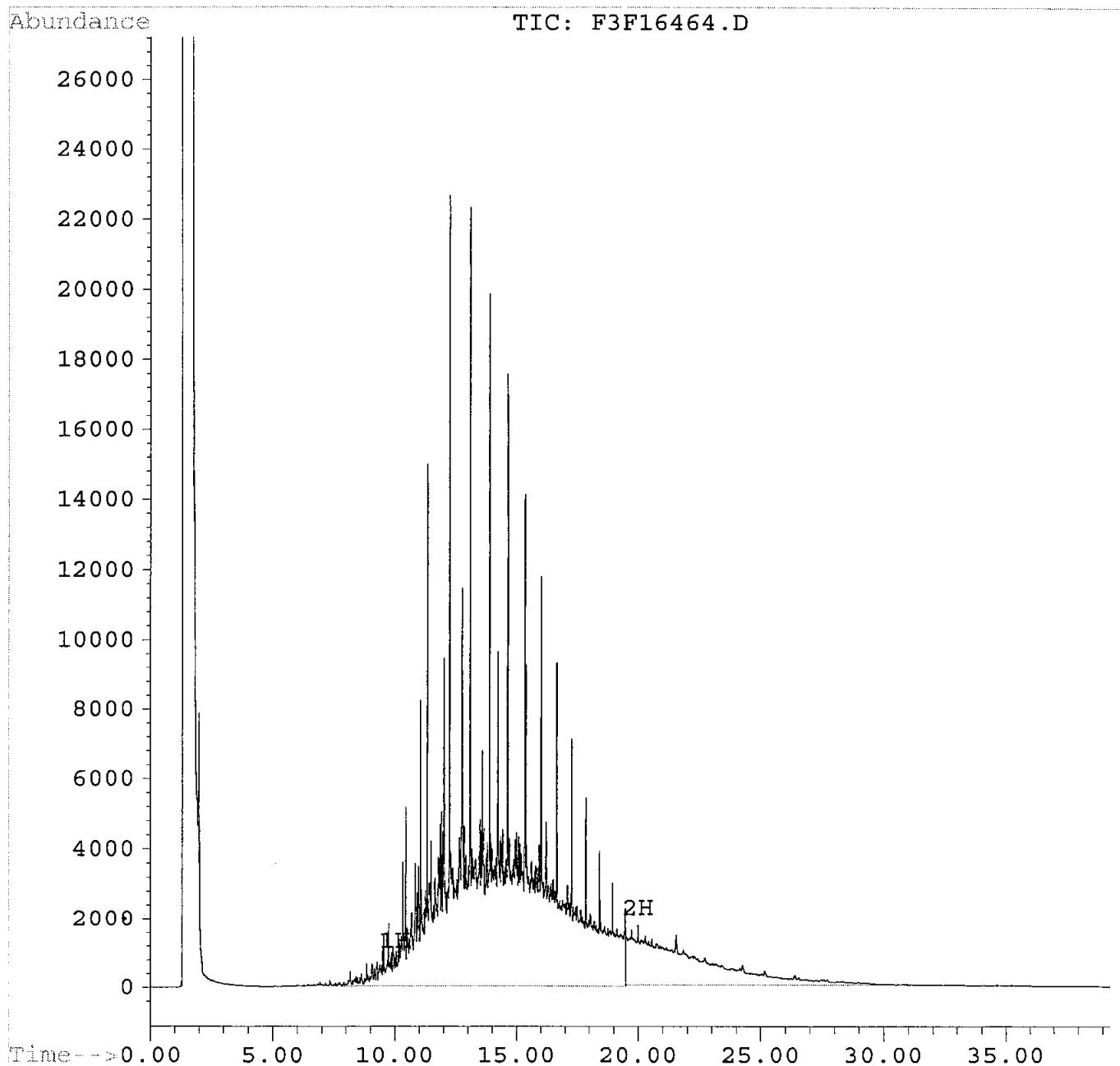
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16464.D
Acq On : 02 Jun 04 04:01 AM
Sample : 0405096-21 50X
Misc : 20 μ l extract + 980 μ l DCM
Quant Time: Jun 9 8:56 19104

Vial: 17
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
Title : 8015Bmod, CALuft
Last Update : Wed Jun 09 08:54:39 2004
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16465.D
 Acq On : 02 Jun 04 04:47 AM
 Sample : 0405096-22 200X
 Misc : 5 μ l extract + 995 μ l DCM
 Quant Time: Jun 9 8:57 19104

Vial: 18
 Operator: HULTS Fuels
 Inst : FUELS3
 Multipllr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
 Title : 8015Bmod, CALuft
 Last Update : Wed Jun 09 08:54:39 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc Units
<hr/>			
System Monitoring Compounds			
3) S o-terphenyl [S]	16.22	426	N.D. μ g/ml
	Recovery	=	0.00%
<hr/>			
Target Compounds			
1) H TEPH C ₁₀ -C ₂₅	10.00	479701	237.57 μ g/ml
2) H Motor Oil C ₂₅ -C ₃₆	20.00	762299	842.57 μ g/ml

CH
6/10/04

CH 6/10/04

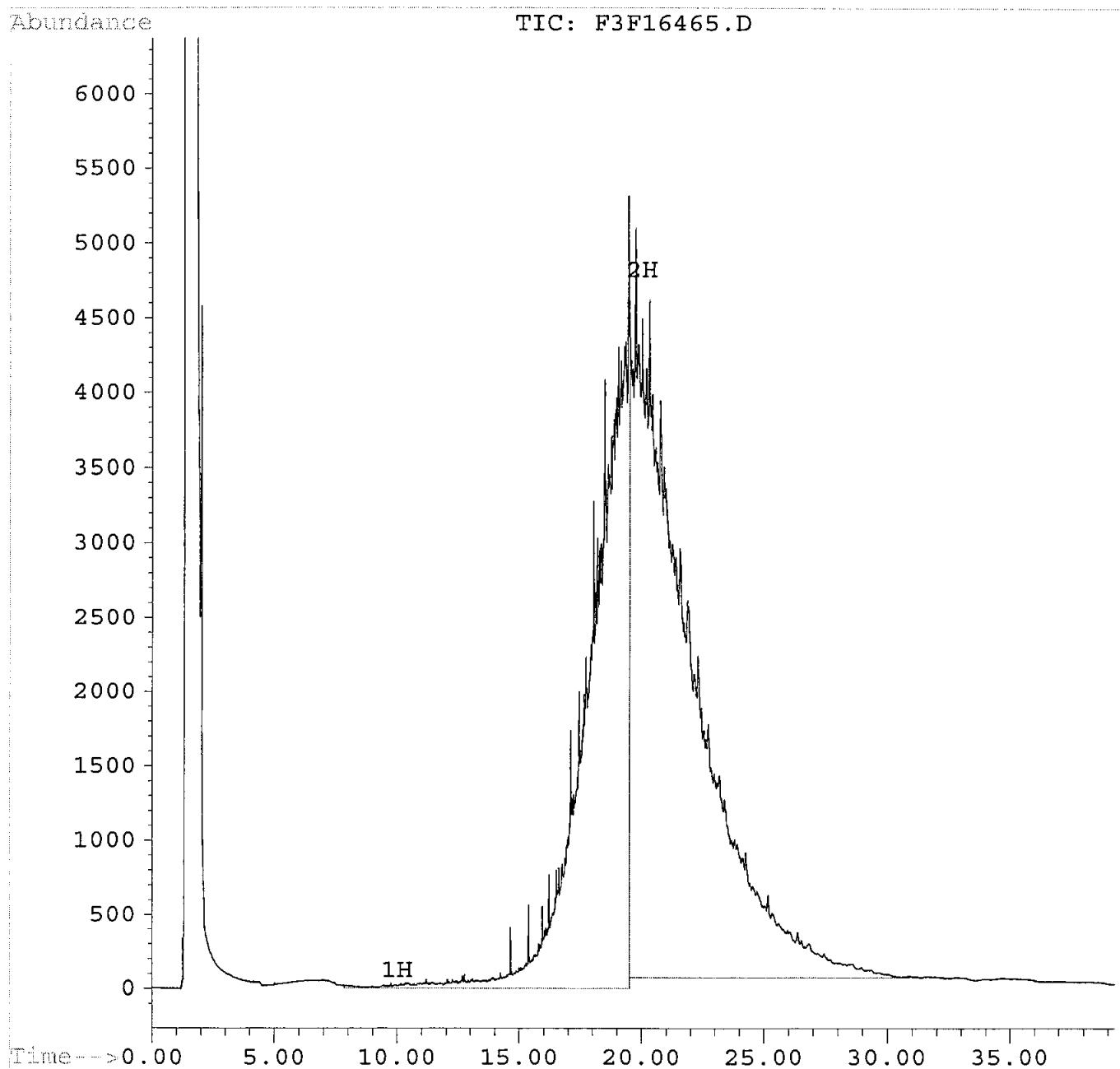
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16465.D
Acq On : 02 Jun 04 04:47 AM
Sample : 0405096-22 200X
Misc : 5 μ l extract + 995 μ l DCM
Quant Time: Jun 9 8:57 19104

Vial: 18
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
Title : 8015Bmod, CALuft
Last Update : Wed Jun 09 08:54:39 2004
Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16466.D
 Acq On : 02 Jun 04 05:34 AM
 Sample : 0405096-23 50X
 Misc : 20 μ l extract + 980 μ l DCM
 Quant Time: Jun 9 8:58 19104

Vial: 19
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
 Title : 8015Bmod, CALuft
 Last Update : Wed Jun 09 08:54:39 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.22	2835	N.D.	μ g/ml
		Recovery	=	0.00%
<hr/>				
Target Compounds				
1) H TEPH C ₁₀ -C ₂₅	10.00	171129	81.11	μ g/ml
2) H Motor Oil C ₂₅ -C ₃₆	20.00	369611	402.31	μ g/ml

CH 6/10/04

CH 6/10/04

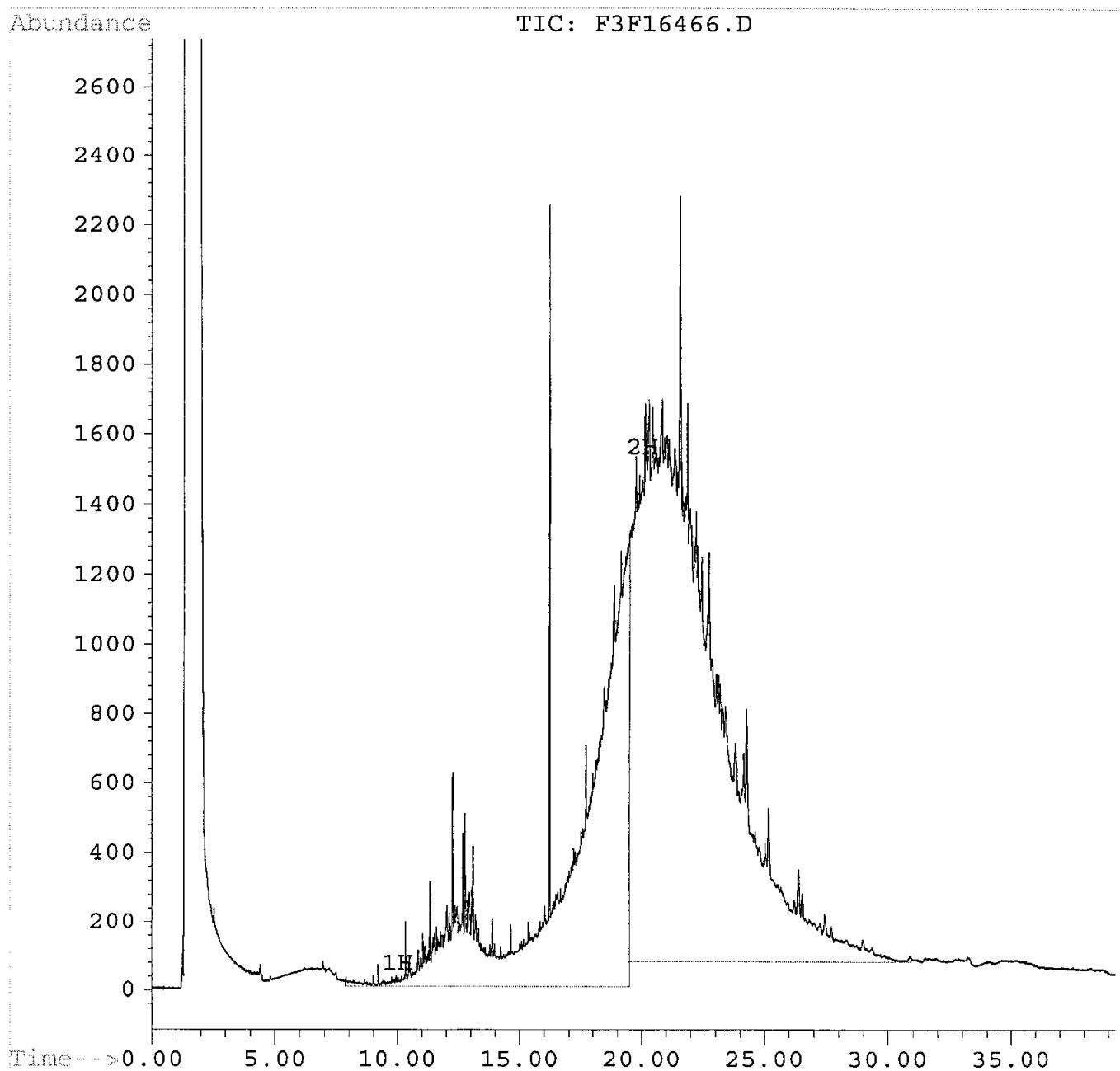
Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16466.D
Acq On : 02 Jun 04 05:34 AM
Sample : 0405096-23 50X
Misc : 20 μ l extract + 980 μ l DCM
Quant Time: Jun 9 8:58 19104

Vial: 19
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
Title : 8015Bmod, CALuft
Last Update : Wed Jun 09 08:54:39 2004
Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16467.D
 Acq On : 02 Jun 04 06:20 AM
 Sample : 0405096-24 200X
 Misc : 5 μ l extract + 995 μ l DCM
 Quant Time: Jun 9 9:00 19104

Vial: 20
 Operator: HULTS Fuels
 Inst : FUELS3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
 Title : 8015Bmod, CALuft
 Last Update : Wed Jun 09 08:54:39 2004
 Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
 Signal Info : FID

Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
3) S o-terphenyl [S]	16.22	455	[N.D.]	μ g/ml
		Recovery	=	0.00%
<hr/>				
Target Compounds				
1) H TEPH C ₁₀ -C ₂₅	10.00	482666	239.08	μ g/ml
2) H Motor Oil C ₂₅ -C ₃₆	20.00	803686	888.97	μ g/ml
CH 6/10/04				

(f)=RT Delta > 1/2 Window

F3F16467.D AK060904.M

Wed Jun 09 09:00:20 2004

(m)=manual int.

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Quantitation Report

Data File : C:\HPCHEM\5\DATA\06012004\F3F16467.D
Acq On : 02 Jun 04 06:20 AM
Sample : 0405096-24 200X
Misc : 5 μ l extract + 995 μ l DCM
Quant Time: Jun 9 9:00 19104

Vial: 20
Operator: HULTS Fuels
Inst : FUELS3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\AK060904.M
Title : 8015Bmod, CALuft
Last Update : Wed Jun 09 08:54:39 2004
Response via : Multiple Level Calibration

Volume Inj. : 1 μ L
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID

